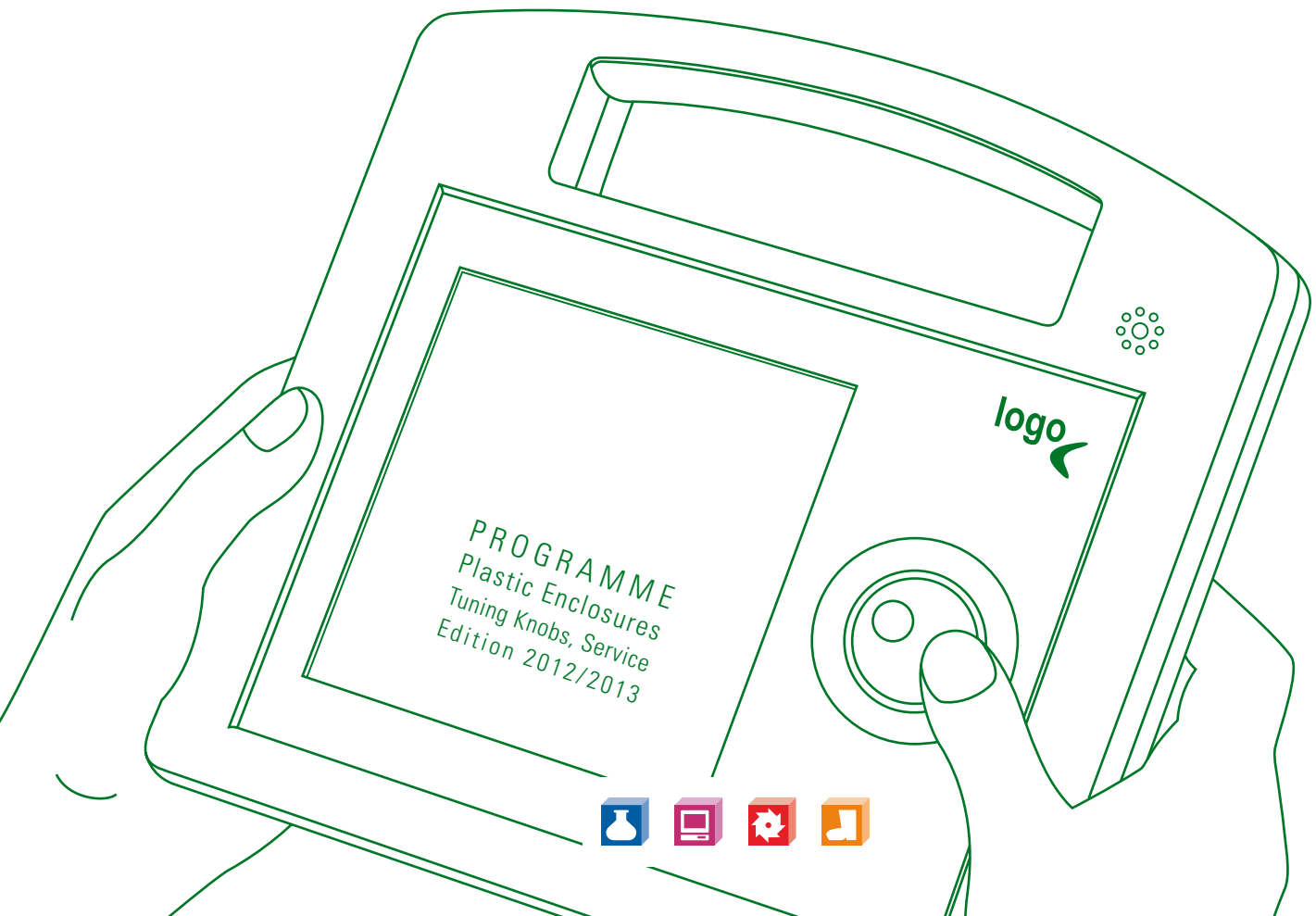




TO EACH HIS OWN HOUSING





## WELCOME TO OKW

### PHILOSOPHY

Enclosures are more than just packaging. They give your product its face, they offer functions and their design is convincing. We support you with all of our standards, our knowledge and our individualisation options.

This gives you your very own electronic package that will maintain its value and meet all of your customers' requirements – for the sustained success of your device.

### YOUR PARTNER

We have been setting creative standards since 1954. OKW and tuning knobs are terms that have gone down in history. In 1972 we presented the flat-pack case, the first standard enclosure made of plastic for the electronics industry.

Our approx. 100 committed workers as well as the Schneider family of entrepreneurs are proud of what they have achieved: a sound family-owned business which is now in its 3<sup>rd</sup> generation, a range of its own – made in Germany – with almost 3,000 articles in stock,

a global logistics network, all conceivable technologies available in-house to individualise your products, and numerous design awards.

And where we ourselves cannot be present, we have our subsidiaries in 8 countries on 3 continents, our long-standing sales partners and of course reputed distributors working throughout the world for you, one of more than 25,000 customers of ours.

The management system we have introduced complies with the standards DIN EN ISO 9001 and 14001 (DQS).

RECOGNISING THE NEEDS  
OF OUR CUSTOMERS AND  
DEVELOPING THE RIGHT SOLUTIONS  
IS THE BASIS OF OUR SUCCESS.



Managing director:  
Dipl.-Ing. Christoph Schneider







## OKW PLASTIC ENCLOSURES AND TUNING KNOBS

### INNOVATIVE CONCEPTS

Knowing today where your electronics will be tomorrow. A successful development needs a perspective and commitment. We are always looking for something special, for innovative developments and technical progress in products and services.

### Progressive

- high practical value
- user-oriented
- aesthetic design
- excellent quality
- ready for use

### Reliable

- experienced staff
- a solution to match your product idea and your components
- individuality, off the peg and made to measure

### SOLUTIONS PROVIDER

Optimum advisory service and support in all project phases lead to the successful implementation of even unusual project specifications. Our marketing teams throughout the world will help you to work out solutions that are ideally adapted to your requirements.







FORWARD-LOOKING THINKING  
AND ACTING GUARANTEES  
OUR SERVICE PROFILE.  
TOGETHER WITH PERFECT TEAMWORK  
WE PROVIDE QUALITY AND SERVICE  
IN EVERY RESPECT.



## OKW SYSTEM PARTNERS

### SYSTEM-COMPONENTS

Standardised system components specially geared to application scenarios provide important time savings and make effective solutions possible.

### Advantageous

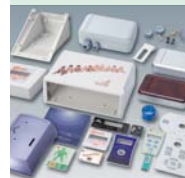
- tried and tested many times
- value-conscious
- fast availability
- high cost-effectiveness
- tried and tested functionality

### Flexible

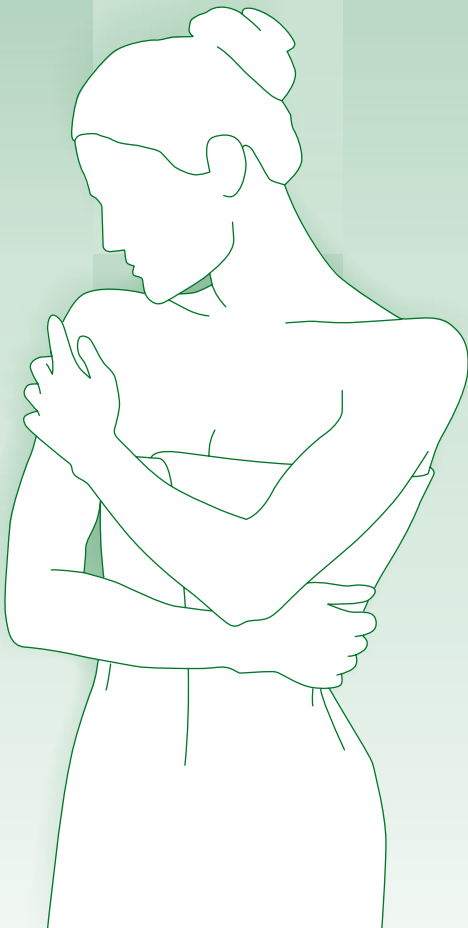
- ready for installation
- individual colours or unusual designs
- specific printing
- quality from one source

### ALL-IN SOLUTIONS

We can offer you a large number of services as well as the technical competence for an all-in solution. Individuality has many facets and faces. Allow us to inspire you on the following pages 108-119.



# MEDICINE LABORATORY WELLNESS



## MAN & ERGONOMICS



### PLEASANT

Particularly when close contact with persons is required, ergonomic shapes together with surfaces that are pleasant to touch and cytotoxically safe are particularly important. If your products are also to appear convincing, reliable and value-conscious, OKW offers all conceivable advantages.

### Germ-free

Optional antimicrobial plastic material: permanent protection against bacteria, viruses and fungi; natural prophylaxis; complies with JIS Z 2801.



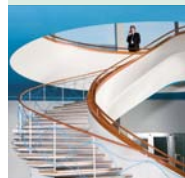
# OFFICE COMMUNICATION BUILDING



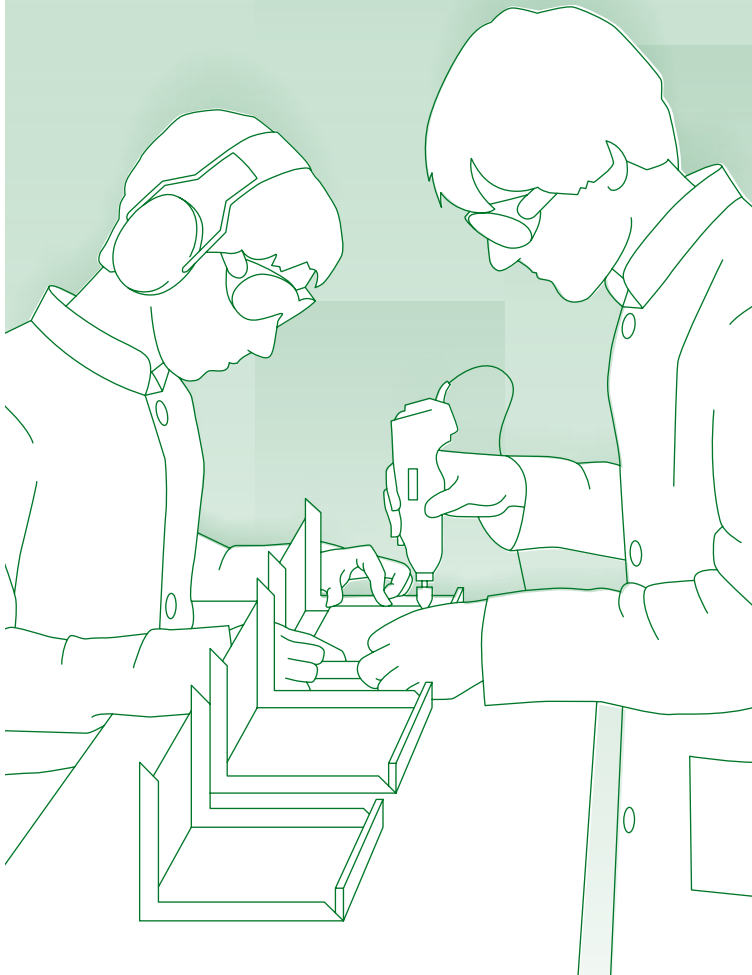
## MAN & TECHNOLOGY

### MODERN

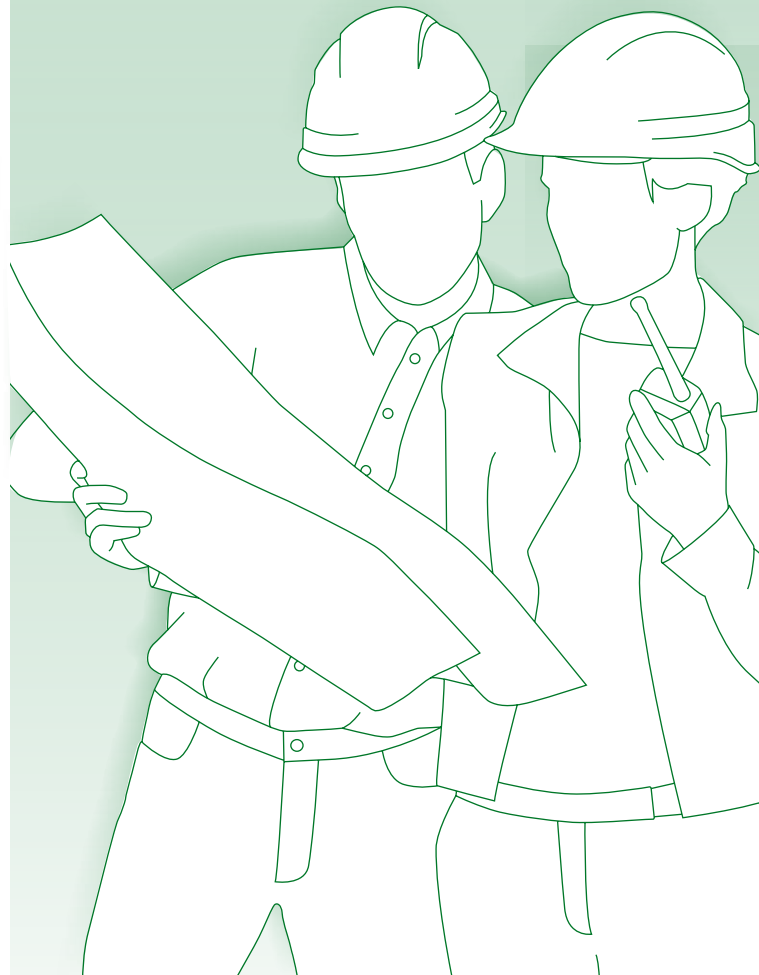
In OKW cases, your products become attractive eye-catchers in the direct environment of the living and working world. They are upmarket and state-of-the-art, and thus also meet the emotional expectations of users of the modern interface man/machine. Show your customers the high standards that characterise your company, and rely on the design and quality of OKW: intelligent, efficient and durable.



# FACTORY SECURITY



# OUTDOOR MEASURE CONTROL



## MAN AND SAFETY

## MAN & MOBILITY



### EFFICIENT

Here, OKW products differ in a very special way from conventional solutions, for the following applies for equipment in industrial use: it must not only be rational and safe, but also user-friendly and easy to read off. Good access to the components is also required for component mounting, connection and service work.

### Tailor-made

Whether manually regulated or automatically controlled – OKW enclosures and tuning knobs provide sufficient comfort and safety in everyday use.



### Outdoor

OKW enclosures are particularly robust and easy to clean. Versions available in reinforced, impact-resistant plastic to stand up to tough conditions.



### COMFORTABLE

There is a variety of mobile control units for data acquisition and transmission. This makes it all the more relevant to think in terms of form and precision. Cases by OKW are very comfortable to hold, easy to operate and they specialise in the measuring, controlling and acquisition of data. Furthermore, they are characterised by a sturdy design.

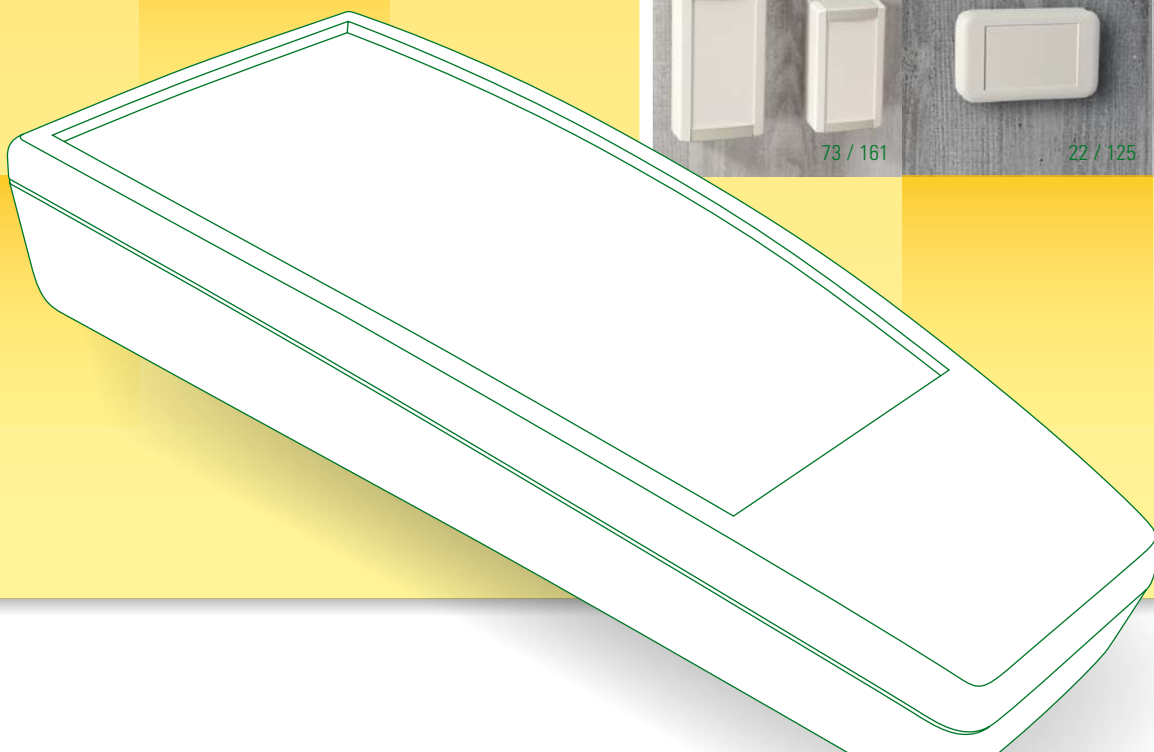


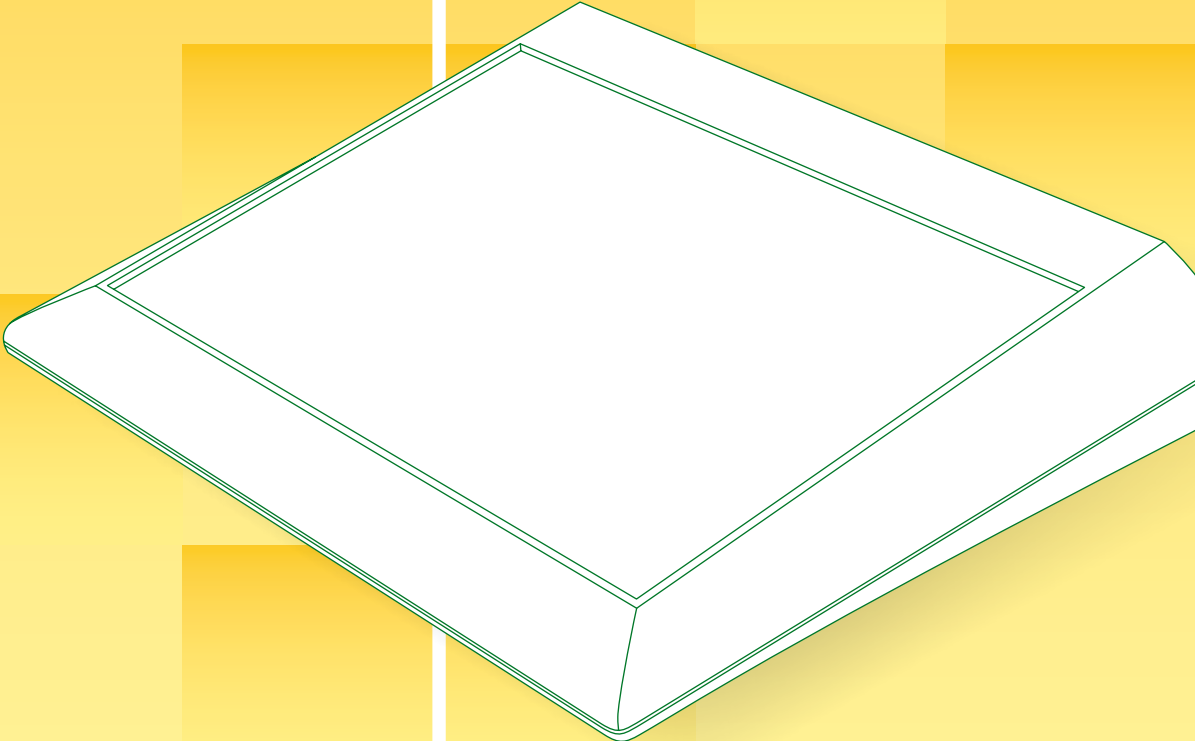
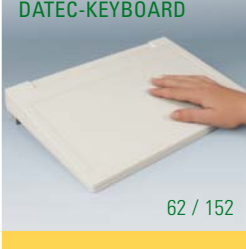
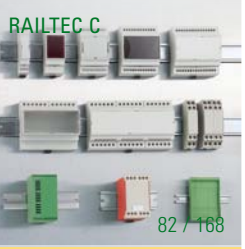


# MOBILE

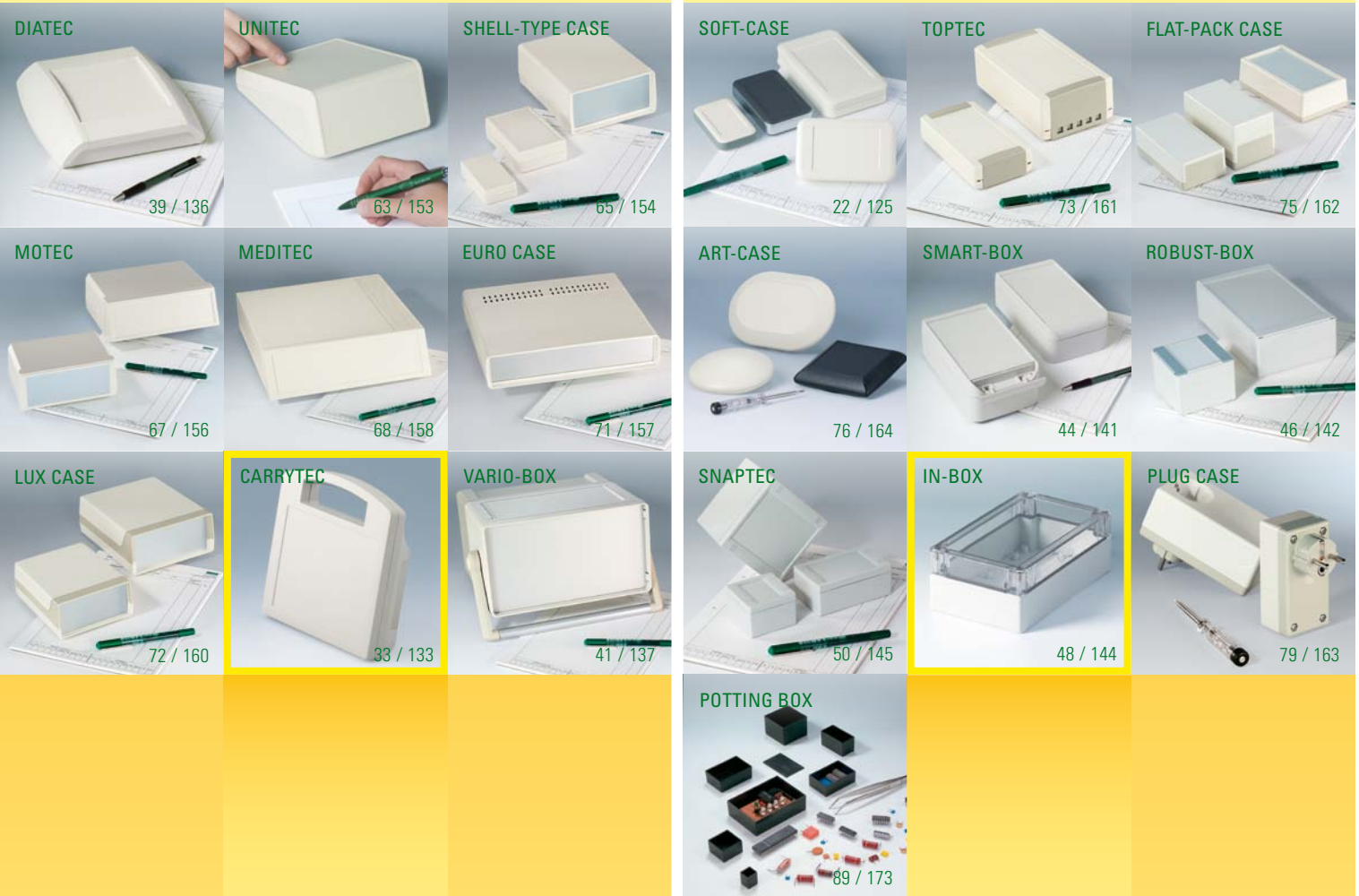
Enclosures starting from page 14

# WALL





Enclosures **starting from page 14**





# ACCESSORIES

Accessories starting from page 90



# KNOBS

Tuning knobs and slide control knobs starting from page 96



STAR-KNOBS

TOP-KNOBS

COM-KNOBS

98 / 188

102 / 190

103 / 192

COMBINATION KNOBS

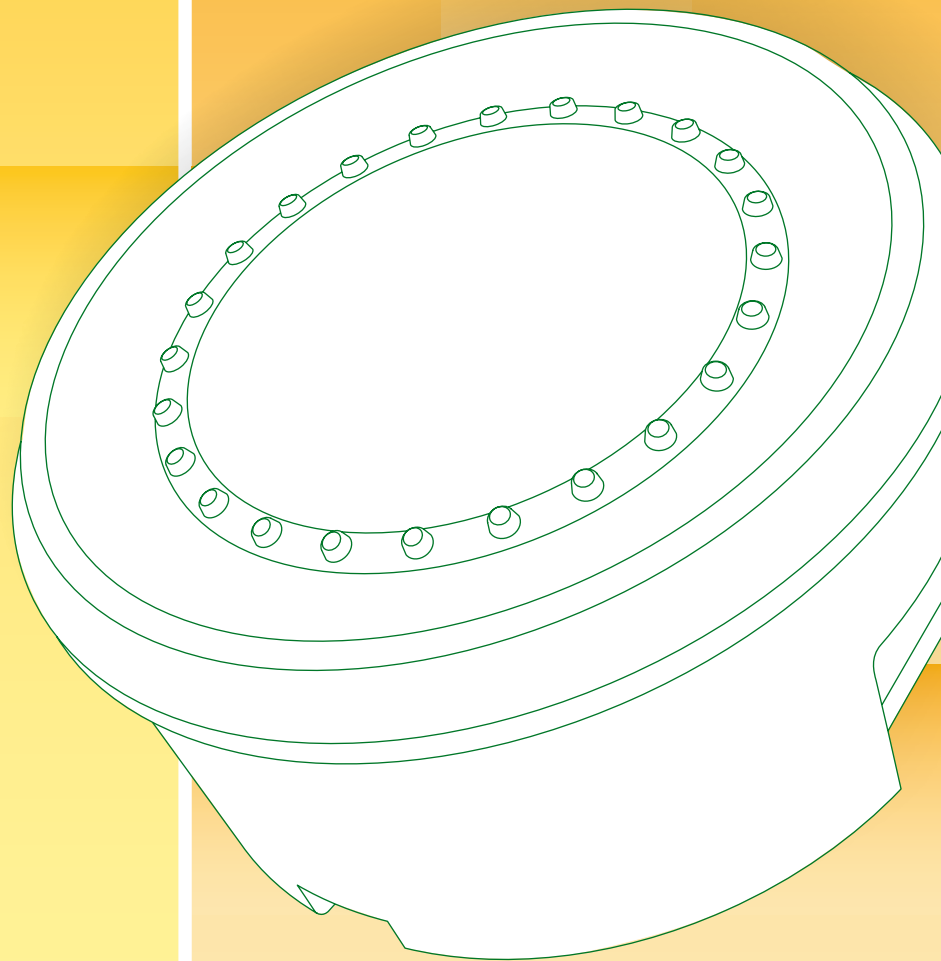
TUNING KNOBS

SLIDE CONTROL KNOBS

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106 / 200

107 / 204



# INDIVIDUALITY

Services **starting from page 108**



# SPECIAL ENCLOSURES

Special enclosures **starting from page 116**



Information starting from page 205

## INFORMATION

- IP40 ABS
- PMMA RAL
- UL 94 HB IP54
- IP66 PC
- BIO

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## SALES NETWORK



205

218







## PLASTIC ENCLOSURES

### THE FINE DETAILS

When it is a question of impressing customers through reliability, ergonomics and attractiveness, OKW plastic enclosures offer all advantages.

Our comprehensive range of products offers different types, sizes and versions. This makes it possible for us to present to you the whole variety of our system.

### THE RIGHT CHOICE

Innovative technology and aesthetic design for attractive device design.

System components specially geared to application scenarios.

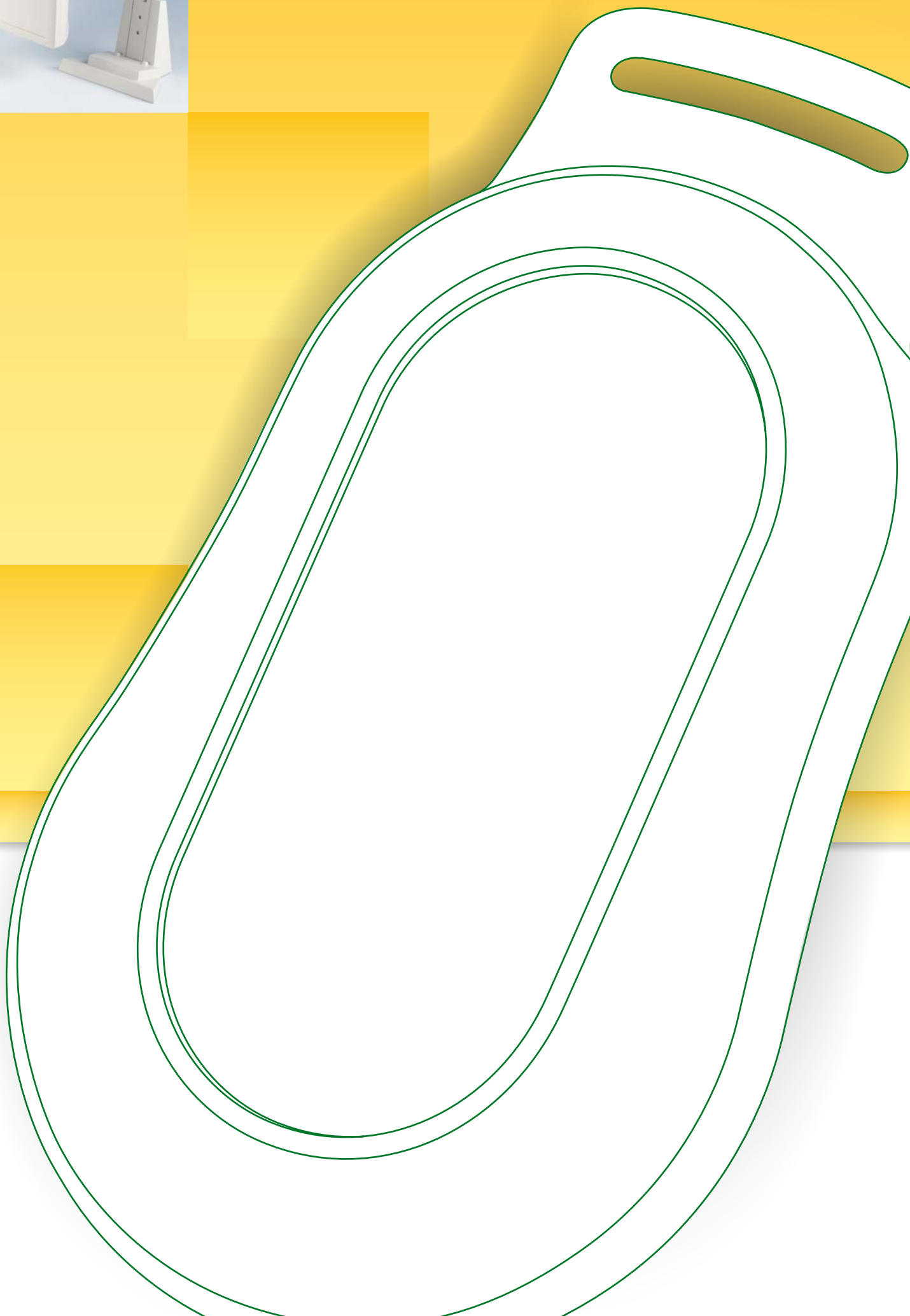
Compatible with standardised displays, batteries, membrane keyboards, terminal blocks, plug headers, Eurocards, DIN rails, switch panel cutouts etc.

Robust construction, easy to install.

Excellent surface quality. High-quality material – perfectly matched to your application.

Accessories are designed to be practical, thus providing you with more flexibility for your individual case.

Made in Germany.





## PRACTICAL MOBILE CASE DESIGN



### THE PRODUCT

The new MINITEC cases convince their users thanks to their mini-dimensions and maxi-benefits.

Whether round your neck or round your wrist, MINITEC cases are your loyal companions and are always within easy reach. They are so small and light that they also fit into any trouser pocket.

Whether with orange, green, blue or volcano-coloured intermediate rings or one coloured, these MINITEC cases are the right enclosures for today's personal electronics.

### ENCLOSURE DESIGN

You have a choice between an organic "MINITEC DROP" shape or a more technical "MINITEC EDGE" design.

Different intermediate rings and accessories offer the necessary flexibility for individual use.

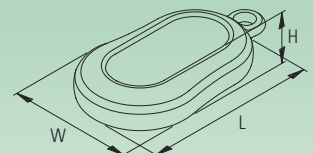
### Protection class IP 41

MINITEC DROP (sizes S and M) with intermediate ring in TPE.

### Max. size of PCB (L x W in mm)

	MINITEC DROP bottom part
S	35 x 27
M	51 x 38
XL	57 x 45

(cutouts of pillars not taken into consideration)







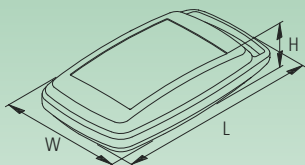
## THE PERFECT COMPANION

**Protection class IP 41**  
MINITEC EDGE (size M)  
with intermediate ring in TPE.

**Max. size of PCB (L x W in mm)**

	MINITEC EDGE bottom part
S	35 x 24
M	51 x 34
XL	53 x 40

*(cutouts of pillars not taken into consideration)*



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

### YOUR ADVANTAGE

Modern, flat styling.

Easy to wear, e.g. round your neck, or as a bracelet with wrist strap, on a key ring or on a belt (EL).

TPE ring for a pleasant touch sensation and as impact protection.

Also available in infra-red light-permeable material.

Recessed operating area for the protection of the membrane keyboard or decorative foil. MINITEC Edge also without recessed operating area.

### APPLICATIONS

Many different types of remote control systems.

Mobile USB solutions.

Specially made for clinic and social fields as well as in the household and in industry, e.g. emergency systems, monitoring and alarm equipment, radio remote control etc.



# SMART-CASE

Order data on pages 122-123

**OKW**  
GEHÄUSE  
SYSTEME



## GOOD TO HOLD



### THE PRODUCT

The idea of giving greater expression to ergonomic requirements was the starting point of the development of the SMART-CASE.

And so the design follows the touch sensation of the human being, thus facilitating natural sequences of hand movements.

Benefit from the outstanding balance between design and technical sophistication.

### YOUR ADVANTAGE

Convincing ergonomics; unique design.

Ideal for remote controls, with cables or with battery compartment.

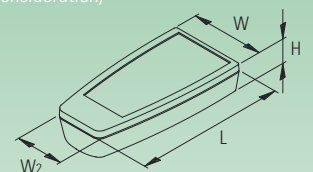
Cable glands for sizes M, L and XL for cables  $\varnothing$  3.4 - 5.9 mm. Cable gland already included.

NEW: enclosures in colour black with black cable gland.

### Max. size of PCB (L x W/W<sub>2</sub> in mm)

	bottom part	top part
XS	46 x 29/18	—
M	58 x 38/30	63 x 40/31
L	88 x 50/42	117 x 51/37
XL	127 x 60/50	78 x 60/56 + 50 x 55/47

(cutouts of pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

# SMART-CASE

Order data on pages 122-123

**OKW**  
GEHÄUSE  
SYSTEME



## APPLICATION PERFECTED



### Protection class up to IP 65

With sealing (accessories) sizes L and XL versions without battery compartment.

### YOUR ADVANTAGE

Optionally in material permeable to infra-red signals from stock. For utmost efficiency the front face is polished.

Recessed operating area to protect the membrane keyboard (M/L/XL).

Fastening pillars and fixing supports for PCBs and components.

### APPLICATIONS

Remote controls of all types, wireless or with cable connection.

Especially suitable for use in hospitals and social fields as well as in industry and households.





Order data on page 124

**OKW**  
 GEHÄUSE  
 SYSTEME


## MODELLED FOR YOUR HAND



### THE PRODUCT

Inspired by the touch sensation, the design is entirely geared to the needs of the user.

The BLOB enclosure innovation surprises the user with an unheard-of wealth of potential applications and a truly sensuous 3D touch sensation.

The hands of the user intuitively "grasp" the functions of the enclosure. The fingers almost automatically find individual ways of holding the product naturally, guiding it exactly and operating it with a minimum amount of effort.

### YOUR ADVANTAGE

Attractive, sophisticated product design for a perfect, secure grip.

High level of practical value thanks to a convincing touch sensation.

Simple, intuitive use.

Gentle and at the same time rugged.

High surface finish quality.

Recessed operating area for the protection of the membrane keyboard.

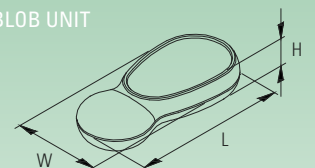
**Protection class IP 54**  
 With sealing (accessories).

### Max. size of PCB (L x W in mm)

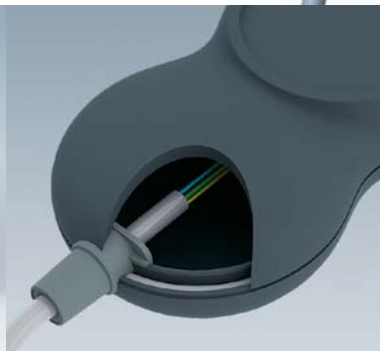
BLOB	top part
UNIT	116 x 49
CONTROL	101 x 65
PANEL	186 x 151

*(cutouts of pillars not taken into consideration)*

### BLOB UNIT



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

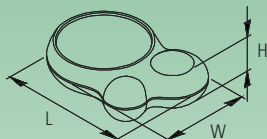


## UNIVERSAL DESIGN

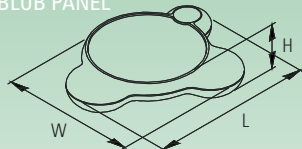
### Special function

A special function can be clearly highlighted in the separate area.

#### BLOB CONTROL



#### BLOB PANEL



### POWER SUPPLY

Cable glands (accessories) serve to protect the cable from kinking and form an attractive closing point. The entire circumference on the shadow groove of the enclosure is available for positioning a cable entry. For installation, a cylindrical hole is necessary.

An internal power supply can be effected using round or button cells. Battery clips and button cell holders that are mounted directly on the PCB are available in the standard range of accessories.

### APPLICATIONS

Following the principles of "Universal Design", BLOB supports applications that are flexible enough to meet the needs of a large number of people with different hand sizes and grasping volumes.

Many different kinds of user-oriented applications, wireless or with cable. As self-sufficient or complementary units, or in a network with other units.

Ideal for diagnostics, therapy, laboratory, industry, office, household and leisure time.



# SOFT-CASE

Order data on page 125

**OKW**  
GEHÄUSE  
SYSTEME



## IN WIDE FORMAT



### THE PRODUCT

The first pocket size case with "wide-format" design. From now on, larger displays can thus be accommodated in a user-friendly small space. The case design makes it easy not only to read off the display but also to operate the unit.

The intermediate ring represents a further innovation in the SOFT-CASE. Different colours and materials allow individual designs and interesting combinations.

### YOUR ADVANTAGE

User-friendly design. Ideal for miniaturised electronics developments.

The unique "wide format" offers a generous interface area as well as sufficient room for larger displays.

Intermediate rings (accessories) ensure more installation height; TPE version serves as a sealing ring and impact protection device for protection class IP 54 (enclosures without battery compartment only).



### BIO-Plastic

SOFT-CASES are also available in a bioplastic material from stock! In many applications BIOGRADE® can replace the fossil plastics used up to now.

BIOGRADE® is CO<sub>2</sub> neutral, technically compostable, biodegradable and has similar properties to ABS.

Show that you are responsible and environmentally aware with a enclosure made of BIOGRADE®.





## SYSTEM VARIETY

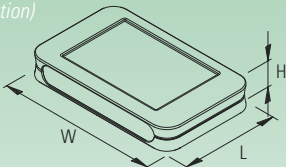
### Protection class IP 54

With intermediate ring in TPE, without battery compartment.

### Max. size of PCB (L x W in mm)

	bottom part without/with batt. comp.	top part
S	—	43 x 75
M	56 x 96 / 26 x 96	56 x 96
L	63 x 108 / 23 x 108	63 x 108
XL	82 x 140 / 30 x 140	82 x 140

(cutouts of pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

### YOUR ADVANTAGE

Optionally in material permeable to infra-red signals from stock.

Available with or without battery operation. Snap-in battery compartment lid; if required, this can be secured by a screw.

Recessed operating area for the protection of the membrane keyboard.

### APPLICATIONS

Remote control units of many different kinds, wireless or with cable.

Measurement and control engineering. Digital control technology.

Medical and laboratory technology.

Peripheral and interface equipment. Communications technology.



# DATEC-POCKET-BOX

Order data on page 126

**OKW**  
GEHÄUSE  
SYSTEME



## COMPACT TECHNOLOGY



### THE PRODUCT

The pocket-sized DATEC-POCKET-BOX range offers a remarkable amount of technology in a minimum of space, as well as sturdy construction.

The sealings fitted in the upper and lower parts ensure greater protection against dust and water entry.

This means that the case can easily be used in rough conditions.

### YOUR ADVANTAGE

Plain surfaces for individual machining and interfaces.

Optionally in infra-red permeable material from stock. For utmost efficiency the case is equipped with a recessed, polished front face (M/L).

Recessed operating area for the protection of the membrane keyboards.

Fastening pillars for PCBs and components.

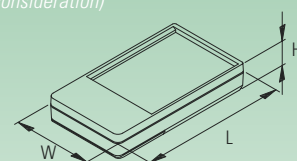
### Protection class IP 54

With sealing, already optionally prefitted in the top.

### Max. size of PCB (L x W in mm)

	bottom part	top part
S	44 x 39	—
M	60 x 51	72 x 51
L	68 x 58	81 x 58

(cutouts of pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)



## MOBILE DATA COLLECTOR

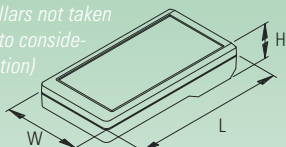
### Protection class IP 65

With sealing kit (accessory) and in versions II-IV only in conjunction with the adhesive foil for the display window

### Max. size of PCB (L x W in mm)

	bottom part	top part
S	142/104 x 72	141 x 72
M	165/115 x 90	184 x 90
L	237/190 x 108	241 x 110

(without/with batt. comp., cutouts of pillars not taken into consideration)



### THE PRODUCT

A series of cases tailored exactly to the field of mobile data collection has been developed under the name DATEC-MOBIL-BOX.

The cases combine robust functionality with a design that received an award from the iF (International Forum Design) in Hanover.

### YOUR ADVANTAGE

Installation of standardised LCDs possible (contact addresses [www.okw.com](http://www.okw.com)).

Display windows protect the fitted display modules and guarantee a high protection class IP 65 in the display area.

Plain surfaces for interfaces.

Recessed operating area in order to protect the membrane keyboards.

Fastening pillars for PCBs and components. Eurocard format in size L.





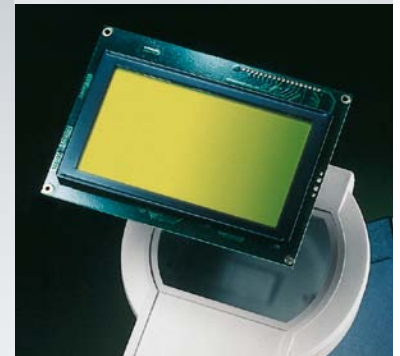
# DATEC-CONTROL MOBILE

Order data on pages 128-129

**OKW**  
GEHÄUSE  
SYSTEME



XS



## THE DISPLAY PROFESSIONALS



### THE PRODUCT

The round form of the head of the DATEC-CONTROL range of enclosures allows the installation of larger displays with graphics capability.

Particular attention was also paid to the ergonomics of the new design.

The cases are thus very comfortable to hold and easy to operate.

### VISUALISATION

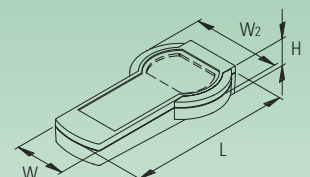
Installation of standardised LCDs and graphics-capable displays possible (contact addresses [www.okw.com](http://www.okw.com)). With this equipment, curves, diagrams, symbols and texts can easily be illustrated and the functions explained to the user so that they are easy to understand.

Display windows protect the fitted display modules and guarantee a high protection class in the display area in conjunction with the sealing kit for the enclosure. Easy assembly with included adhesive foil.

### Max. size of PCB (L x W/W<sub>2</sub> in mm)

	bottom part	top part
XS	190 x 46/82	150 x 47/83
S	214 x 62/106	213 x 60/106
M	207 x 80/118	113 x 78
L	230 x 80/132	115 x 78

*(without battery compartment, cutouts of pillars not taken into consideration)*



detailed drawings see our website  
[www.okw.com](http://www.okw.com)



## FLEXIBLE POWER SUPPLY

### Display cutout (W x L in mm)

XS	46 / R32.5 x 45
S	56 / R39.5 x 54
M	71 / R44 x 51
L	73 / R49.5 x 66



(Display installation on existing fixing pillars in the top part or on the PCB)

### Optional battery compartment

XS	2 x 1.5 V mignon cells (AA) 3 x 1.5 V mignon cells (AA) 1 x 9 V flat battery (PP3)
S	4 x 1.5 V mignon cells (AA) 1 x 9 V flat battery (PP3)
M/L	4 x 1.5 V mignon cells (AA) 5 x 1.5 V mignon cells (AA)

### DATEC-CONTROL XS, S

Available without or with battery compartment. Easy battery replacement.

Lid of battery compartment optionally with latch and / or fixed by screws.

### DATEC-CONTROL M, L

Available without/with battery compartment. For mounting the battery compartment there are two positions possible according to the requirements of your components configuration. Easy battery replacement. Station for charging electronics etc. available as accessories, see page 28.

In case of high power requirements, up to 5 AA batteries can be used.

Push-on end cover can also be permanently fixed if needed.



# DATEC-CONTROL MOBILE/BASE

Order data on pages 128-129

**OKW**  
GEHÄUSE  
SYSTEME



XS/S



XS/S



M/L



M/L



## PERFECT CONTACTING



### BASE

Ergonomically inclined position allows convenient reading of data and operating. Displays and readouts are easily legible.

Stations XS and S for desk case applications.

Stations M/L for table top and wall mounting applications.

### CHARGING/TRANSMITTING

Easy transmission of data and charging current. Contacts as accessories or already supplied with the enclosure sets XS/S.

Stations offer sufficient volume for electronic components.

### Chargers for rechargeable batteries

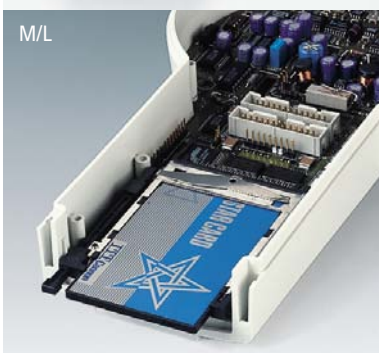
In the M/L station there is even room for a battery compartment. The station can thus be used as an external battery charger provided it is suitably configured.

Any number of battery packs are thus no longer a problem.

Replaceable batteries guarantee long operating times for the device. This is an advantage when using it in the field.

# DATEC-CONTROL MOBILE/BASE

Order data on pages 128-129



## CONVINCING ALL DOWN THE LINE

### Protection classes enclosures

With sealing kit (acc.) and, in version II, in conjunction with the adhesive foil for the display window, protection class **IP 65** is possible with XS and S, as well as **IP 54** with M and L.

In the XS/S enclosure set, an additional seal for the contacts is required.

### PROTECTED

The protectors take up the elegant design features of the basic enclosure and give the enclosures excellent impact protection. They also serve as surface protection for peripheral equipment, devices etc. Sizes M/L also have an individually adjustable shoulder strap.

Space for PCMCIA card (M/L), protected mounting – easy access.

### APPLICATIONS

Mobile data collection and transfer via modem, ISDN or infra-red technology.

Measuring and control technology. Digital control technology.

Machine building and construction units.





# HAND-TERMINAL

Order data on page 132

**OKW**  
GEHÄUSE  
SYSTEME



## ROBUST "GRIP"



### THE PRODUCT

The HAND-TERMINAL is predestined for electronic components that require a robust hand-held enclosure.

Technical refinements in the design of the unit guarantee pleasant day-to-day work but also allow a firm grip whenever necessary.

A front panel version is available for the installation of complete prefabricated electronics units.

### YOUR ADVANTAGE

Robust enclosures made of impact resistant material.

Large, recessed area on the front side for the installation and protection of interfaces, screwed cable glands, plug-in connections etc.

Suitable for emergency stop switches and enable pushbuttons.

Available with or without battery operation.

Optimum weight distribution.

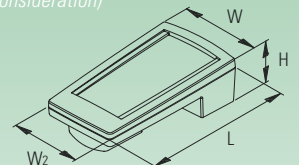
### Protection class IP 65

In conjunction with the sealing kits available as accessories (case, front panel)

### Max. size of PCB (L x W/W<sub>2</sub> in mm)

	bottom or top part
M	206 x 106/93

(PCB either in the top or in bottom part, cutouts for pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)



## NOTICEABLY PLEASANT TO CARRY

### Protection class IP 54

Size XS with intermediate ring in TPE. Sizes S, M and L with sealing/sealing kit (accessory), except size L with display panel.

### Max. size of PCB (L x W in mm)

	top part	bottom part
XS	53 x 40	45 x 48
	flat top part	high top part
S	65 x 56	61 x 56
M	128 x 72	128 x 68
L	125 x 162	119 x 160

(cutouts of pillars not taken into consideration)

### THE PRODUCT

A convex design to match the curves of the body is the characteristic feature of the ERGO-CASE range of cases.

As "bodycases" they for the first time make it possible for the user to wear the unit comfortably – whether on their arm, chest or waist.

The innovative design not only makes it easier to operate but also easier to read off.

### YOUR ADVANTAGE

Ready for use with a large range of accessories, e.g. wrist strap, belt strap, strap eyelet, belt/pocket clip etc.

Available for operation either with or without batteries. Add-on battery compartments (M, L) with snap-in battery compartment lid; if required, this can be secured by a screw. Size S with integrated supports.

Optimum weight distribution.

Flat surface for individual interfaces on the front side.



# ERGO-CASE DESK/WALL

Order data on pages 130-131

**OKW**  
GEHÄUSE  
SYSTEME



S/M/L



S/M/L



S/M/L



S/M/L



## INTERFACE PROFESSIONAL



### YOUR ADVANTAGE

Available either with flat or with high top part for individual installation configuration.

Recessed operating area in order to protect the membrane keyboard.

Wall mounting with removal prevention. Easy transmission of data and charging current. Contacts as accessories.

### APPLICATIONS

Mobile data recording and transmission in the fields of medical, laboratory and measuring technology.

Storage and sales logistics.

Digital open and closed-loop control technology.

### ERGO-CASE L with display trim for installing larger, graphics-capable displays

The displays can be mounted on the PCB or the attachment towers in the top part. The trim snaps firmly into the top part; if necessary screw mounting is also possible. To protect the membrane keyboard, the display and operating panels are recessed. Standard colours: display trim to match the enclosure in off-white or black or PC translucent; available as a set with the enclosure





## COMFORTABLE TO CARRY

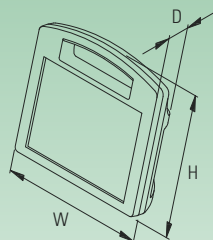
### Protection class IP 54

Enclosure with sealing (accessories).

### Max. size of PCB (W x H in mm)

	Bottom part	Top part
S	210 x 120	210 x 142
M	258 x 176	259 x 184

L see our website  
(cutouts of pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

### THE PRODUCT

CARRYTEC is unique in offering a functional handle for many different tasks and situations.

In this way, CARRYTEC improves the manageability of large-volume equipment and supports users in their everyday work.

Depending on the application – indoor or outdoor – this innovative enclosure is available in different materials, e.g. high-impact, reinforced plastic material for tough conditions, colours etc.

### MOBILE

The handle conveys a completely new carrying sensation. Located above the centre of gravity of the enclosure, it guarantees a balanced product design and ergonomic handling. A soft insert ensures a perfect, non-slip grip. CARRYTEC is also characterised by an especially large surface area that is ideal for user interfaces.

Lateral recesses in the bottom part also give the user a secure grip when running wireless or wired applications in the hand held enclosure.

Battery compartment (5 x AA) optional.





# CARRYTEC WALL/BASE

Order data on page 133

**OKW**  
GEHÄUSE  
SYSTEME

NEW



## SECURELY HELD



### WALL APPLICATIONS

A station is available as an accessory to allow the unit to be placed securely on a wall.

Available with or without base plate.

The enclosure snaps securely into the station. It can be removed easily by pulling the handle.

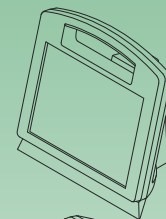
### CHARGING / TRANSMITTING

Optional integration of charging and data transfer contacts.

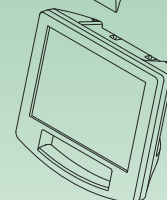
The station offers adequate space for the electronics.

High-quality stainless steel Torx screws for the enclosure, the station and the holding clamp.

CARRYTEC with station



CARRYTEC turned by 180° for tripod or support arm applications





## EASY TO OPERATE

### Ample installation depth and plenty of room for interfaces, yet slim appearance

Flat, impact-protected areas on the bottom part of the enclosure for installing interfaces, plug-in connectors, cable inlets and outlets, peripheral equipment etc.

Very large operating panel for pushbuttons, membrane keyboard, display, touch screen etc.

Easy transmission of data and charging current. Station with flange as accessory.

Optional protection bags for accessories, sensors etc. available. Cable connectors and interfaces can be pre-assembled, ready to use.

### DESK-TOP

The station can also be used to be placed on a table.

The rubber feet included in the supply of the base plate ensure that the table-top version does not slip.

The enclosure snaps securely into the station.

### ERGONOMIC

The operating area is inclined by 15° (with or without station). This facilitates ergonomic tilted positions. A real asset when operating and reading – also in different distances or with different perspective.



# CARRYTEC HOLDING DEVICES

Order data on page 133

**OKW**  
GEHÄUSE  
SYSTEME

NEW



## WITH SYSTEM CONNECTION



### HOLDING DEVICES

Optional holding clamp available for mounting on round tubes and standard rails DIN EN ISO 19054.

The flat area on the back of the enclosure also allows it to be mounted on tripod or support arm systems, and the handle, since it is pointing downwards, allows fast positioning and alignment of the viewing and operating panels. Effortless swivelling, tilting, inclining, turning, pulling etc. – all this is no problem.

### APPLICATIONS

Medical and laboratory technology. Wellness.

Peripheral and interface equipment. Communications technology. Safety engineering.

Data recording. Monitoring.

Plant and machine construction.

Measuring and control technology.

Agriculture and forest management.

Thanks to its easy-to-hold shape adapted to human gripping habits, CARRYTEC offers a unique variety of possible uses, indoors and outdoors: mobile – desk-top – wall-mounted – rail-mounted – round tube – tripod – support arm

The enclosures are particularly robust and easy to clean. Versions in reinforced plastic material can stand up to tough conditions in everyday use.

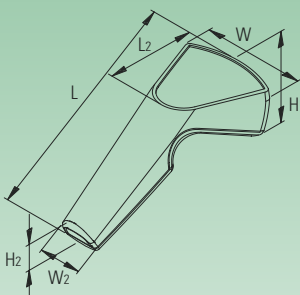


## THE WAY AHEAD

Protection class IP 41

Max. size of PCB (L x W in mm)

	top part
M	74 x 74/27



### THE PRODUCT

SENSO-CASE is ideal for ergonomically favourable single-handed operation, and offers many different possible applications.

Specific measuring, controlling and signalling tasks as well as the recording of data using opto-electronic components can be carried out easily, quickly and reliably.

Suitable for right handed and left handed operation.

### YOUR ADVANTAGE

Ideal for pre-assembled electronics packages, including those with integrated interfaces.

Also available with push-button for immediate and/or temporary operation.

Internal power supply with 2 x 1.5 V mignon cells (AA) or 1 x 9 V flat battery (PP3). Battery compartment for 2 x AA as well as cable glands and a set of strain relief for cable operation available as accessories. Simultaneous operation using standard/rechargeable batteries and cable possible.





# HAND-HELD-BOX

Order data on page 135

**OKW**  
GEHÄUSE  
SYSTEME



## DIGITAL OR ANALOGUE



### THE PRODUCT

The name HAND-HELD-BOX stands for tried and tested, low-priced cases for measuring instruments of handy pocket size, e.g. continuity checker and volt meter, field intensity meter, digital thermometers etc.

The cases are particularly ergonomic and are also operator-friendly.

The applied individuality meets special requirements, depending on the suitability and application.

### YOUR ADVANTAGE

Prepared for mounting of digital or analogue display modules.

Display windows protect the integrated displays. Simple assembly with adhesive foil.

Snap-in battery compartment lid for quick battery exchange.

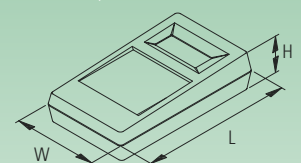
With or without switch cap (P).

Raised front area on the bottom part to accommodate plugs.

### Protection class < IP 40 Max. size of PCB (L x W in mm)

type	bottom part	top part
P	106 x 71	106 x 72
M	102 x 71	106 x 71
N (vers. I)	109 x 91	169 x 91
N (vers. II)	168 x 91	169 x 91

(cutouts for pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

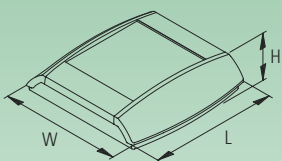


## GUIDING DIALOGUE

Protection class IP 40

Max. size of PCB (L x W in mm)

	bottom part	top part
XS	120 x 115	127 x 115
S	120 x 180	120 x 180
M	180 x 180	180 x 180
L	240 x 180	240 x 180



### THE PRODUCT

You can hardly present your communication and network equipment in a more attractive way.

DIATEC is an attractive eye-catching design for living and working environments. But this innovative range of cases also offers many functional benefits.

All design features are perfectly integrated. Depending on your requirements, different equipment options and connections are possible.

### YOUR ADVANTAGE

Modern, flat enclosure design, ideal for table top and wall mounting applications.

Plain, recessed area on the bottom part for installation and protection of interfaces, screwed cable glands, plug-in connections etc.

Easy, invisible wall mounting.

Recessed operating area on the top for the protection of the membrane keyboards and operating elements.





## PRESTIGIOUS



### SIZES S/M/L

Separate slot-in panels can be used as interior partitions, for example to guard the electronics when changing batteries. This allows the complete pre-assembly of the electronics unit. The technician on site only has to mount the unit on the wall and connect up the relevant cables. Connection can be effected from the left and/or from the right-hand side. The actual case does not have to be opened to do this, only the snap-on side trims.

Accessory hinged lids, in case colour or transparent plastic, protect the dialogue zone.

### APPLICATIONS

Systems for data collection on the job.

Access and security controls.

Peripheral equipment for computers, data system engineering.

Measuring and controlling.

Medical field and laboratory technology.

### Design DIATEC XS

Two-piece case, consisting of top and bottom part, screwed together. Integrated battery holder for 2 x 1.5 V AA batteries. Pre-shaped flush-mounting box contoured in the bottom part.

### DIATEC S, M, L

Four-piece case, consisting of top and bottom part as well as two covers for concealing the assembly screws. If required, the snap-on covers can be locked to prevent unauthorised access. Integrated battery compartment for 2 x 1.5 V AA batteries or 1 x 9 V flat battery.



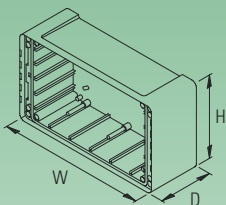
# VARIO-BOX

Order data on pages 137-139

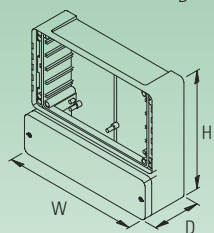


## EASILY ADAPTABLE

### Size (W x H x D in mm)



264 x 150 x 90 – 256.5



264 x 230 x 90.5 – 241.5

### THE PRODUCT

The VARIO-BOX is the case system with many variations.

Different component parts can be assembled to form wall mounting systems as well as table-top units.

The VARIO-BOX can be supplied as a complete standard assembly kit or in component parts.

### WALL

Rear panel with / without terminal compartment. Large terminal compartment easily accessible, also suitable for deeper terminals.

Combinations with long frame allow 19" subrack style installations according to DIN 41494 (42 TE, 3 HE). Due to the card guide which can be snapped in fast and easily, no additional equipment sections are required.

Invisible assembly. The wall suspension element allows the case to be fixed to a wall when closed.





# VARIO-BOX

Order data on pages 137-139

**OKW**  
GEHÄUSE  
SYSTEME



## ALL-ROUNDER



### TABLE / MOBILE

Ergonomically tilted position due to handle bar and tilt feet.

Facilitates viewing of the displays and easy operation. Handle bar adjustable in 30° steps.

Ideal also for mobile applications with handle bar or lateral handle recess.

The raised front frame protects the operating elements.

### APPLICATIONS

Case system for a multitude of applications, e.g. in plant engineering as control or measuring devices, 19" technique, in heating and air conditioning technology, in measuring and control technology, etc.

### Protection class

**IP 54** for combinations with front panel

**IP 64** when used in combination with front frame and front panel F3 or frame cover

**IP 65** when used in combination with cover

Sealing gaskets are supplied with the case.

assembly instruction see our website  
[www.okw.com](http://www.okw.com)



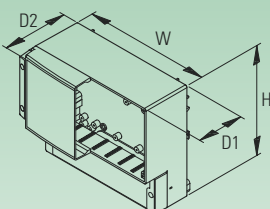
## MEASURING, CONTROLLING, REGULATING

### Protection class IP 65

With transparent enclosure cover or front lid.

### Sizes (W x H x D1/D2 in mm)

W x H	D1	D2
166/188 x 160	80, 108	106, 134
213/235 x 185	90	119
257/280 x 219	122	156
296/320 x 260	95	129
363/390 x 316	134	167



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

### THE PRODUCT

The robust range of wall mounted cases with freely accessible terminal compartment for easy component mounting and wiring.

The models fitted with a transparent cover have an easy-to-operate closure system ensuring comfortable opening and closing.

These cases are particularly suitable for use in heating, air conditioning and ventilation technology, measurement and control technology, for machine and industrial controllers etc.

### YOUR ADVANTAGE

Available either with or without transparent cover to protect the display and operating elements. Opening either on the right or on the left.

Alternatively available with front cover / front panel attachment (accessory).

Screw bosses and guides for the vertical and horizontal installation of printed circuit boards and mounting plates.

Direct wall mounting or external wall mounting brackets (accessory). Optional DIN rail mounting kit (accessory).



# SMART-BOX

Order data on page 141

**OKW**  
GEHÄUSE  
SYSTEME



## SMART SOLUTION



### THE PRODUCT

Your electronics cut a fine figure from the very first moment with the SMART-BOX.

Rounded surfaces create a pleasantly smart appearance which enhances the visual impact of your electronics. The cases also offer plenty of technical advantages.

### YOUR ADVANTAGE

Convincing design. Flush-fitting trims mask the screw attachments; instead of light grey alternatively available in other colours (without UL 94 V-0) on request, e.g. to colour-code the function or to match the case with your corporate image.

High-quality material ASA+PC (UL 94 V-0) for use in tough conditions. Also flame-retardant and self-extinguishing.

Two cover retaining straps are included to assist installation and servicing when open.

### Protection class up to IP 66

With sealing, already prefitted in the top.

### High-quality stainless steel screws

High resistance to corrosion – even against aggressive media – through A2 steel alloy.

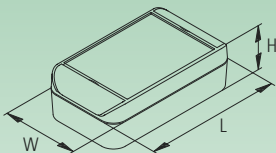




## SYSTEM VARIETY

### Max. size of PCB (L x W in mm)

	base part	top part
120 x 90	81 x 81	78 x 79
160 x 90	121 x 81	118 x 79
140 x 110	101 x 101	98 x 96
200 x 110	161 x 101	158 x 99
160 x 130	121 x 121	118 x 119
180 x 150	141 x 140	138 x 139
280 x 170	241 x 161	238 x 159



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

### YOUR ADVANTAGE

Optional lock accessory protects the unit from unauthorised opening.

Recessed operating area for the protection of the membrane keyboard. Additional surface for labels on the underside.

Case feet (accessory), simply snap-in ensure non-slip desktop positioning.

### APPLICATIONS

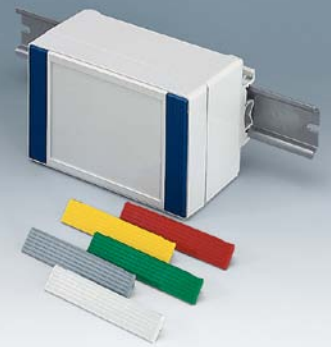
Ideal for design-oriented electrical and electronic applications, e.g. in heating, air conditioning and ventilation engineering, in control and system engineering, in safety technology etc.



# ROBUST-BOX

Order data on pages 142-143

**OKW**  
GEHÄUSE  
SYSTEME



## DUAL CASE SYSTEM



### THE PRODUCT

Conceived as a dual case system, the ROBUST-BOX range offers a variety of installation options.

Both case shells are equipped with pre-moulded threads. You as the user can now decide whether the flat or the high part of the case is to be used as the bottom part.

### YOUR ADVANTAGE

Two standard materials (UL 94 HB): ABS – approved as a terminal mounting case or in Polycarbonate – a solid and robust case, with high heat resistance for use in adverse environments.

Easy-assembly construction. The case shells can be used as either top or base section.

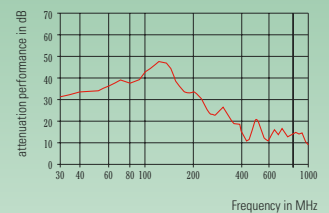
The cover fixings are outside of the sealed area. The fixing screws are rust proof and captured in the top part.

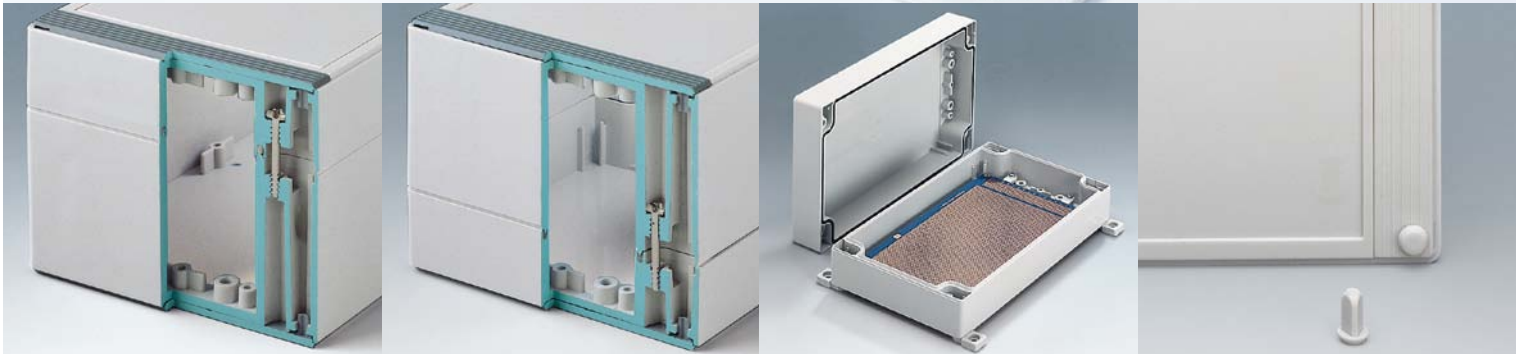
### Protection class IP 66

With sealing already pre-fitted.

### Good shielding effect

Robust-Box C 21 12 202 with al-metallisation (al-metallisation on demand)

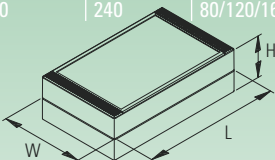




## ROBUST VARIETY

### Sizes (mm)

length	width	height
80	80	60/80
120		
160		
240		
120	120	60/90
200		
240		
160	160	60/90
240		60/90/120
300	200	80/120/160
360	240	80/120/160



### YOUR ADVANTAGE

There is an area recessed by min. 0.8 mm for the mounting of membrane keyboards.

Colourful cover strips for coding (as an alternative to the standard version in light grey).

Usable as a wall mount case or desktop case.

### APPLICATIONS

This case system is especially suitable for a wide range of electric installations, e.g. heating, climate, ventilation, machine building and construction units.

But it can also be used in the electronics sector, e.g. as push-button case, for controllers, sensors, detection devices etc.





Order data on page 144

**OKW**  
GEHÄUSE  
SYSTEME



## INDUSTRIAL QUALITY



### THE PRODUCT

As an enclosure for terminal installations as well as for the electronics sector the IN-BOX programme offers versatile options.

### YOUR ADVANTAGE

9 base enclosures with high gloss surfaces and different heights.

Two standard materials:  
ABS (UL 94 HB) or PC (V-2).

Top parts in case colour or transparent.

Efficient quick-action lock made of stainless steel.

Recessed operating area to protect the membrane keyboards.

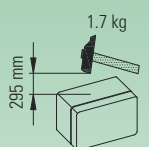
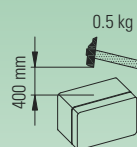
### Protection classes IP 66/67

With sealing, already foamed in the top.

### Good impact strength

**IK07**  
(ABS)  
impact energy  
2 joule.

**IK08**  
(PC)  
impact energy  
5 joule.



NEW

## IN-BOX

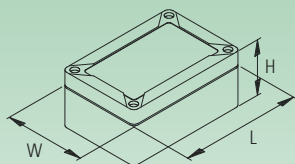
Order data on page 144

OKW  
GEHÄUSE  
SYSTEME

## COMPREHENSIVE RANGE

## Sizes (mm)

length	width	height(s)
84	82	55/85
122	82	55/85
124	122	55/85
162	82	55/85
	122	90
202	122	75/90
	152	90
252	162	90/120
302	232	90/110



## YOUR ADVANTAGE

Direct wall mounting or exterior wall mounting with wall mounting brackets (acc.). If required an internal hinge can be supplied as accessory.

Optional security kit for use with lead tags prevents unauthorised opening or removal.

Accessory DIN rails and mounting plates for individual installations and configurations.

## APPLICATIONS

This case system is especially suitable for the wide range of electric installations, e.g. heating, climate, ventilation, machine building and construction units, security equipment etc.

But it can also be used in the electronics sector, e.g. as digital or analogue instruments, sensor applications, interface enclosures, alarm systems etc.





## IP 65 IN A CLICK!



### THE PRODUCT

OKW took a completely new approach in the development of SNAPTEC.

Instead of a conventional screw connection, assembly is effected using innovative and rational snap-in technique.

A visual improvement as well. The four openings are only for unlocking the unit for service or adjustment work on the final product, and are almost invisible thanks to the covers.

### YOUR ADVANTAGE

Minimum effort with screwless case assembly. Save money, either during production or later with maintenance.

Easy wall mounting. Invisible wall mounting in pre-moulded shafts within the base part. As an alternative, there are separate wall mounting brackets for exterior mounting available as accessories.

High bottom parts guarantee maximum surface area for fitting screw-in cable glands and interfaces.

### Protection class IP 65

With sealing, already prefitted in the top.

### Max. sizes (L x W in mm)

SNAPTEC	base part	top part
60 x 60	30 x 52	28 x 50
60 x 100	52 x 69	50 x 68
100 x 100	69 x 91	68 x 90

*(cutouts for pillars not taken into consideration)*







## EXCITING AND VERSATILE

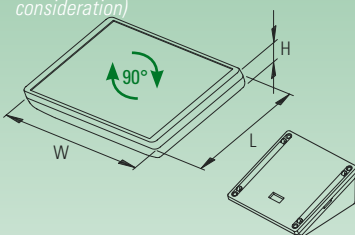
### Protection class IP 54

With sealings (accessories).

### Max. size of PCB (L x W in mm)

	bottom	cover	station
S	124 x 162	120 x 176	84 x 95
M	154 x 196	150 x 210	112 x 126
L	180 x 257	180 x 256	143 x 155

(cutouts of pillars not taken into consideration)



### THE PRODUCT

The growing demand in the field of data visualisation calls for innovative products tailor-made to meet the requirements of today's users.

The new INTERFACE-TERMINAL meets all of the requirements of a modern man-machine interface. Here the user himself decides whether he would like to use the device as a mobile or as a stationary unit.

### APPLICATIONS

Unique variety of applications:  
Mobile – desk-top – wall mounted

Peripheral and interface equipment.  
Office applications.  
Communications technology.

Safety engineering. Biometrics.

Medical and laboratory technology.  
Health sector.

Automation. Measuring/regulating/  
controlling.



# INTERFACE-TERMINAL MOBILE/BASE

Order data on pages 146-147

**OKW**  
GEHÄUSE  
SYSTEME



## CONTACT-FRIENDLY



### MOBILE

Maximum mobility and independence.

With/without battery compartment (5 x AA), accessible from the outside, incl. protection against incorrect insertion as well as anti-rotation device.

User-friendly design with attractive flat styling in the handle area. Finger recesses on the underside ensure a secure grip.

Available with either flat or high bottom part for individual installation configurations, interfaces, cable inputs and outputs etc.



### CHARGING / TRANSMITTING

Easy transmission of data and charging current. Contacts as accessories.

Case available either to hang in position (desktop application) or NEW: base with snap-in mechanism for secure desktop and wall mounted applications. A flat wall suspension element as a base or for contacts is now also available.

Operating panel can be mounted either vertically or horizontally.

The base offers adequate space for the electronics.

### Max. display sizes

S 6.4" / 16 cm  
M 8.4" / 21 cm  
L 10.4" / 26 cm

The INTERFACE-TERMINAL provides sufficient space for large-area touch screen displays. Thus allowing simple, intuitive and interactive operation of the controls on the touch screen. The advantage is a perfect navigation experience.



## EASY TO OPERATE

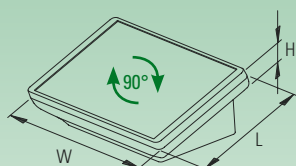
### Protection class IP 54

With sealings (accessories).

### Max. size of PCB (L x W in mm)

	bottom	cover	station
S	124 x 162	120 x 176	84 x 95
M	154 x 196	150 x 210	112 x 126
L	180 x 257	180 x 256	143 x 155

(cutouts of pillars not taken into consideration)



### ERGONOMIC

Operating panel inclined by 20°. Ergonomically ideal for operating and reading – whether vertically or horizontally mounted.

Rubber feet are included in the kit to ensure non-slip desktop positioning.

### BASE-MOUNTED VARIANTS

Individual desktop cases can be assembled from different components to match the component configuration.

Case can also be screwed to the base (desk). Assembly screws hidden on the underside.

Alternatively, the case snaps onto the base (desk/wall). If required, the unit can be secured by a latch lock.

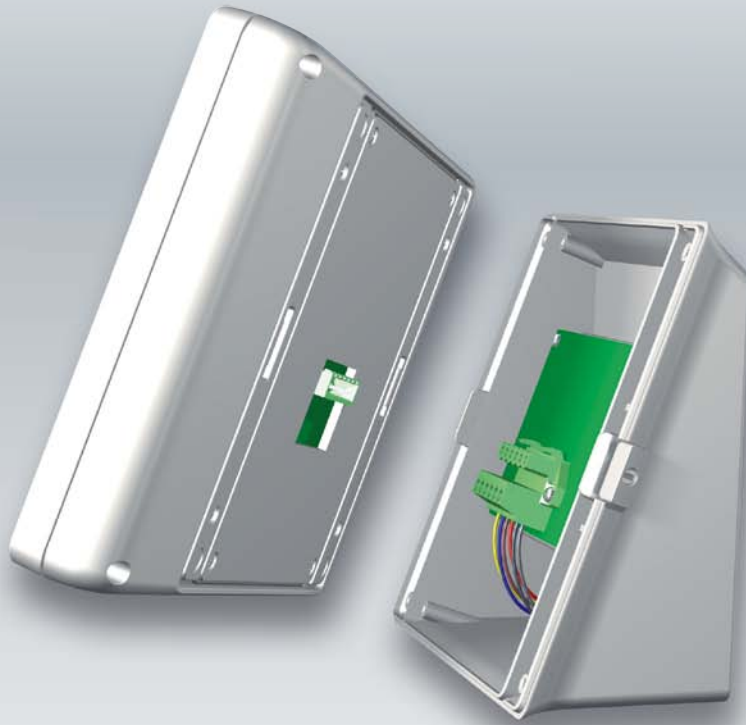




# INTERFACE-TERMINAL WALL

Order data on pages 146-147

**OKW**  
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SYSTEME



## INTERFACE PROFESSIONAL



### EFFICIENT

Unique "interface" between a stationary and a mobile component.

Assembly can be significantly simplified by predefined, snap-in interfaces.

You can also benefit from the ease of assembly when equipping and connecting up the interfaces; plug-in connectors also prevent wiring errors whenever servicing is required.

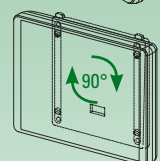
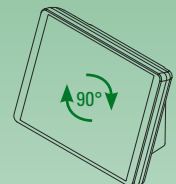
### WALL MOUNTING

Direct wall mounting. The ergonomically inclined base offers plenty of space for connectors, electronics as well as wiring.

Separate wall suspension element for low-profile wall mounting, suitable for cases without base. The wall suspension element is prepared for contacts (accessories) for transmitting data and current.

### Rational wall mounting

The case can be mounted on the wall as a closed unit.





## ELEGANT DESIGN FRAMES

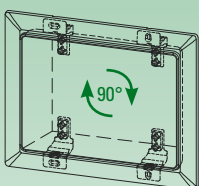
### Protection class IP 54

With sealings (accessories).

### Max. size of PCB (L x W in mm)

	bottom	cover
S	124 x 162	120 x 176
M	154 x 196	150 x 210
L	180 x 257	180 x 256

(cutouts of pillars not taken into consideration)



### DESIGNS

If the architectural standards are particularly high, or in historically valuable buildings, INTERFACE-TERMINAL enclosures can also be harmoniously integrated in walls or front panels. Installation in plant and machinery is also possible.

Our speciality: individual colours and a wide choice of finishes. Please select the relevant Part-No. and tell us your colour or the standard finish you requirements.

### INSTALLATION

Easy installation: Mount holders on the fully assembled enclosure. Place the enclosure with holders in the wall/front panel and align it. Mark and drill mounting holes. Then bolt the enclosure with the holders from the front and push on the design frame.

Depending on requirements, there are different installation options: enclosures with top part, glass panel or ABS front panel. In the raised top part, special functions can be integrated laterally, for example openings for acoustics.



# DATEC-TERMINAL

Order data on pages 148-149

**OKW**  
GEHÄUSE  
SYSTEME



## PROFESSIONAL OPERATIONAL DATA COLLECTION



### THE PRODUCT

The DATEC-TERMINAL cases are uniquely designed to meet the requirements of stationary operational data collection.

A high degree of versatility is a characteristic of this range of cases.

Functional design and a wide range of accessories encourage universal use in the field of operational data collection, and also in other fields of application requiring wall mount and desktop enclosures.

### YOUR ADVANTAGE

Mounting of standard pocket-size scanners.

With/without separate terminal section which is easily accessible.

Ergonomic shape. Operating area inclined by 20°. A real asset when operating and reading.

The cases are designed to save you time and money by being easy to assemble and service. The design is very attractive with all assembly screws being hidden from view.

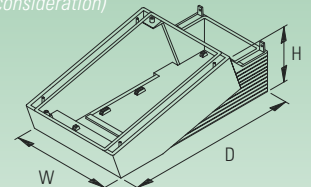
### Protection class IP 54

Only in combination with cover and closed lid.

### Max. size of PCB (D x W in mm)

	basic housing	covers
S	160 x 118	172 x 104
SL	160 x 251	172 x 237
M	255 x 124	209 x 128
L	255 x 258	209 x 264

(cutouts for pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)





## TABLE TOP OR WALL MOUNTED

### You have the choice

A special asset is the possibility to manufacture a wall mounted system as well as a table-top unit for the same application. An identical arrangement of the electronic parts can be maintained. The front plate and/or the cover only has to be turned through 180°.

The ergonomically inclined front panel allows the case to be mounted within the operator's reach. Displays and readouts are easily legible for all users involved – be it the mechanical engineer, the operator etc.

### YOUR ADVANTAGE

Invisible wall mounting with unauthorised removal prevention.

Screw pillars for PCB mounting are suitable for mounting eurocards 100 x 160 mm or double eurocard sizes (S, SL and L).

Flat area for machining and cutouts.

Recessed operating area for the protection of the membrane keyboard.

### APPLICATIONS

Systems for data collection on the job and machines.

Data system engineering.

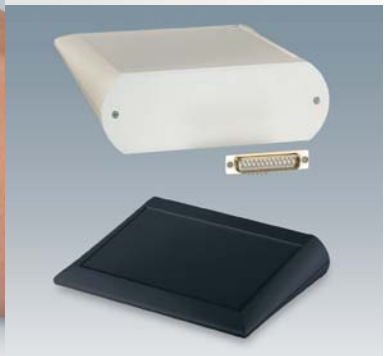
Access and security controls.

Medical technology.

Measuring, controlling, regulating.

Heating and air conditioning technology.





## PLEASANT TO USE



### THE PRODUCT

Modern, attractive, flat styling characterises the COMTEC family of cases. This makes desktop units easy to operate, and applications on the wall – then rotated by 180° – can be optimally mounted for the user.

The new "Softline" design gives the cases a high-quality appearance for housing equipment that needs to look good.

### YOUR ADVANTAGE

Ergonomic design. A real asset when operating and reading.

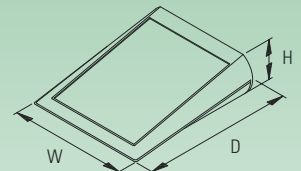
Large area for interfaces at the top. Ideal for D-sub-plug connectors, round connectors etc.

Flat or raised bottom part for large-volume components.

### Protection class IP 40

### Max. size of PCB (D x W in mm)

	bottom part version I	top part
120 F	94 x 123	105 x 137
120 H	94 x 128	105 x 137
150 F/H	124 x 175	130 x 187
200 F/H	174 x 123	185 x 137
290 H	264 x 167	270 x 187





## TABLE TOP OR WALL MOUNTED

### Advantages for wall mounted applications

The ergonomically inclined front panel allows the case to be mounted within the operator's reach. Displays and readouts are easily legible for all users involved – be it the mechanical engineer, the operator etc.

Wall suspension element for rational wall mounting (accessory).

### YOUR ADVANTAGE

Version I with closed bottom part. In version II the battery compartment can be fitted in the bottom parts (150 F/H, 200 F/H). Lid of battery compartment snapped-on.

Recessed operating area for the protection of the membrane keyboard.

Self-adhesive case feet ensure reliable desk-top positioning.

### APPLICATIONS

Systems for data collection on the job and machines.

Communications equipment. Access and security controls and data systems engineering.

Medical field and laboratory technologies.

Measuring and controlling.

Industrial regulation.





Order data on page 151

**OKW**  
 GEHÄUSE  
 SYSTEME


138



190



190 F



## FUNCTIONALLY INCLINED



## THE PRODUCT

The OKW DESK CASE range covers many different fields of application.

Choose a case that will fully meet your specific requirements in terms of size and tilt of the control panel.

Front panel versions are available for the installation of complete prefabricated electronics units.

## YOUR ADVANTAGE

Various angles of inclination for the control panel, depending on requirements. Practical for operating and reading off the unit.

Suitable for numeric keypads and membrane keyboards.

Prepared for the assembly of euro-cards 100 x 160 (138/190/190F/190H).

Versions with ample space for large assemblies.

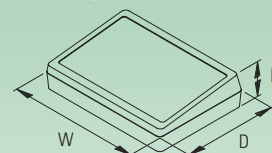
Protection class &lt; IP 40

Max. size of PCB (W x D in mm)

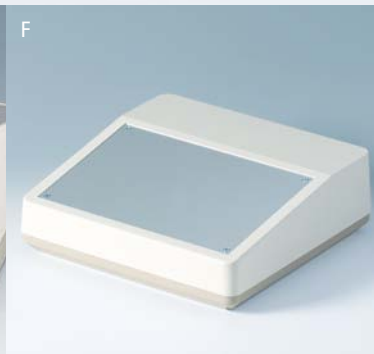
Desk case

	bottom part	top part
138	118 x 180	127 x 175
190 ...	180 x 118	175 x 127
220	210 x 147	–

(cutouts for pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)



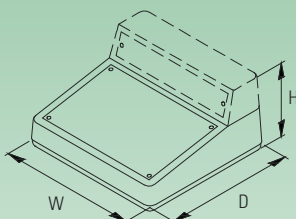
## CONVENIENT

### Max. size of PCB (W x D in mm)

Combi desk case  
with or without attachment

	bottom part
F/H	210 x 196

(cutouts for pillars not taken into consideration)



### YOUR ADVANTAGE

Raised section giving space for easy installation of cable grommets and plug connectors (220, COMBI DESK CASE F/H).

Version with attachment for digital readouts, measuring equipment, encoders etc. (COMBI DESK CASE H).

### APPLICATIONS

Systems for data collection on the job and machines.

Communications equipment. Access and security controls and data systems engineering.

Medical field and laboratory technologies.

Measuring and controlling.

Industrial regulation.



# DATEC-KEYBOARD

Order data on page 152

**OKW**  
GEHÄUSE  
SYSTEME



# KEYBOARD HOUSING

Order data on page 152



## ROBUST OPERATIONS



### THE PRODUCT

The DATEC-KEYBOARD represents an almost indestructible case system for stationary data collection. The double-walled case construction provides the necessary stability for applications in rough conditions.

The standard feet can be adjusted to different inclination angles (included).

Holes on the bottom side of the cases allow direct mounting to a wall or machinery.

### Protection class IP 65

With sealing kit (accessory).

### Max. size of PCB (W x D in mm)

S 300 x 185 /  
305 x 190  
L 450 x 185 /  
454 x 190

Flat areas for individual application and cutouts.

Ergonomic design. Working without getting tired.

### Protection class < IP 40

### Max. size of PCB (W x D in mm)

355 x 160 (bottom part)

With/without deposit groove. Providing more space for additional key blocks, function keys, digital readouts.

## FLAT AND PRACTICAL

### THE PRODUCT

These KEYBOARD HOUSINGS have been developed according to ergonomic guidelines for VDU work stations.

They are flat and practical, thus permitting pleasant handling as control units.

With predetermined openings for round cables with traction discharge, flange socket and 15-channel subminiature plug.



detailed drawings see our website  
[www.okw.com](http://www.okw.com)





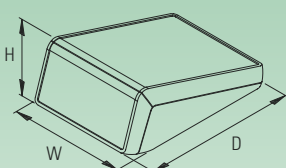
## FACE TO FACE

### Protection class IP 40

### Max. size of PCB (in mm)

	W x D bottom	W x D top part	W x H front part
S	112 x 134/30	112 x 148	112 x 48
L	132 x 166/62	132 x 180	132 x 60

*(cutouts of pillars not taken into consideration, bottom part without/with battery compartment)*



### THE PRODUCT

The new UNITEC range of cases is characterised by two operating panels with different inclinations at right angles to each other.

Depending on the application, these can be used for operating and/or reading-off purposes, thus allowing simultaneous applications, for example a doctor face to face with a patient.

### YOUR ADVANTAGE

Modern appearance, ideally suited for desk-top or wall mounting.

Generously dimensioned dialog fields (72°/ 18° inclination). Ideal for large displays, touch screen surfaces, membrane keyboards (1.4 mm depth), graphic overlays (0.6 mm depth), interfaces etc.

Pushbuttons, switches and display elements can be ergonomically operated and read off.





## PERFECTLY SET FOR THE WALL



### YOUR ADVANTAGE

Flexible component mounting. Printed circuit boards can be positioned in the bottom, top and front parts. Since the operating panels are positioned at right angles to each other, it is also possible to install electronics and interfaces as complete ready-made packages.

Single or dual operating areas.

With/without battery operation  
 3 x AA / 5 x AA. Battery compartment lid snap-in and/or screw-on.

Hidden wall mounting.

### APPLICATIONS

Data acquisition systems.

Building installations.

Data systems engineering.  
 Communication.

Analysis, diagnostics and therapy applications.

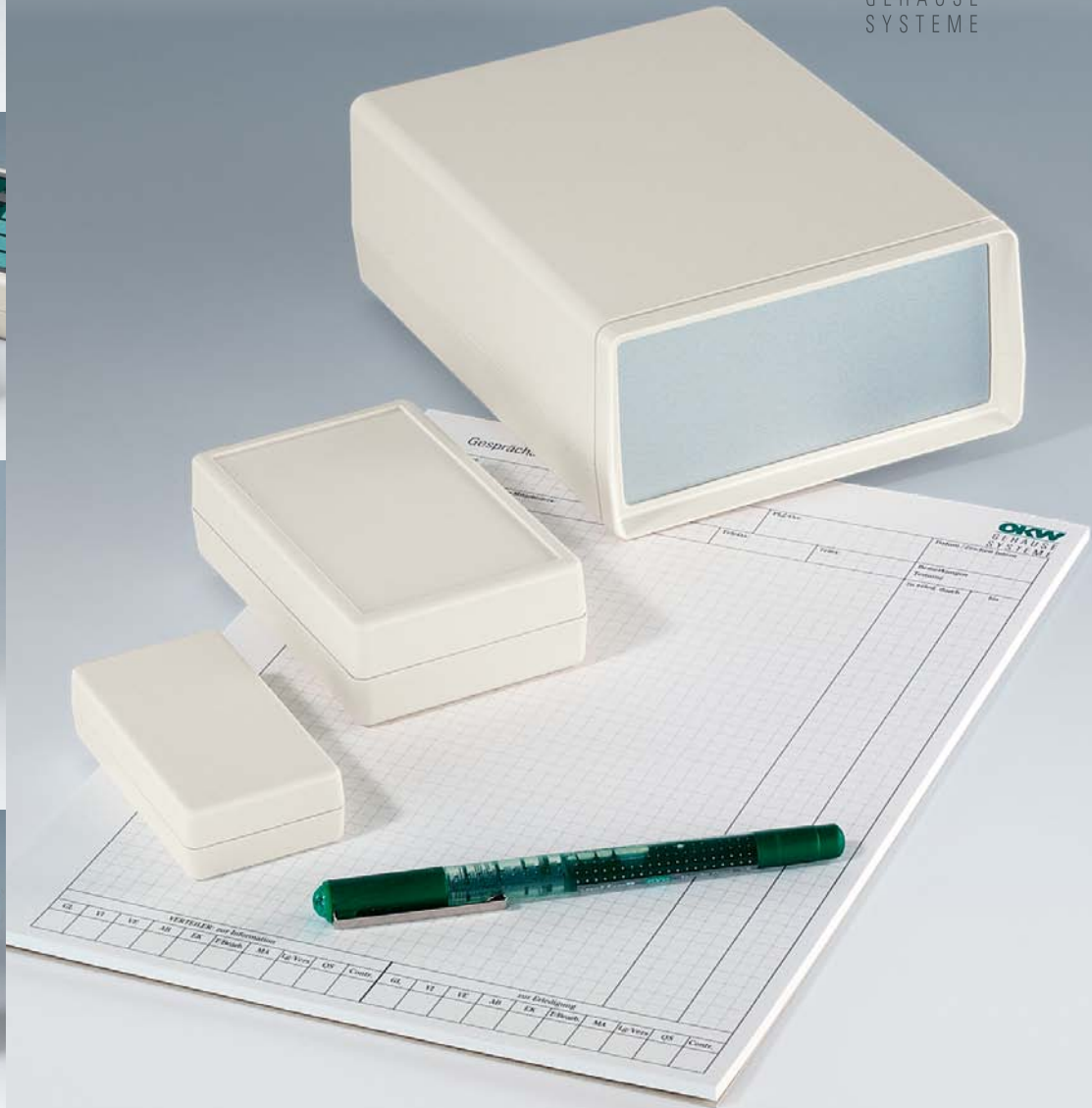
Measuring and control technology.

Industrial regulation.

### More individuality

Individual electronics cases can be created through the use of an all-round digital graphic overlay specially tailored to illustrate your corporate identity (top and front parts recessed by 0.6 mm).

On request we can print and mount digital graphic overlays for you in our own Service Centre.



## 1001 POSSIBILITIES

### Protection class IP 65

For closed versions (G) without battery compartment when using the sealing kit (accessory).

### EMC

On request the SHELL-TYPE CASES are also available with aluminium metalisation. Aluminium contact strips (accessories) provide additional electrical continuity between the top and base shells of shielded cases.

### THE PRODUCT

The comprehensive SHELL-TYPE CASE range is available in different sizes, heights and types.

Simply choose the case that meets your special requirements.

### YOUR ADVANTAGE

A high degree of rigidity and tight fitting as a result of the tongue-and-groove joint.

Flat design for small-volume components. Higher versions for larger components.

Guide ridges for vertical mounting of partitions and PCBs. Fastening pillars in top and base part.





# SHELL-TYPE CASES

Order data on pages 154-155

**OKW**  
GEHÄUSE  
SYSTEME



## FUNCTIONALLY DESIGNED



### YOUR ADVANTAGE

3 different case types:  
V: open front, closed rear.  
O: open front, open rear.  
G: closed front, closed rear.

Front and rear panels in aluminium or PMMA red (plexiglass®) available as accessories.

Without/with battery compartment.

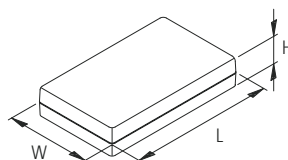
Closed versions with flat top parts (type G), also with recessed area to protect the membrane keyboard.

### APPLICATIONS

Measuring and control technology.

Medical field and laboratory technology.

Peripheral devices and interfaces, switchboxes, modems.



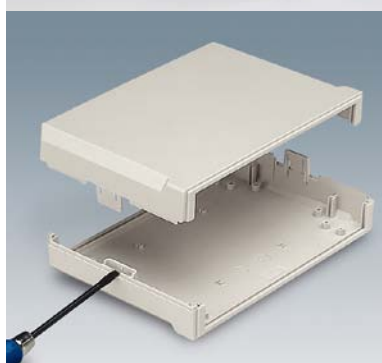
### Sizes (mm) / types

L x W	H	types	battery comp.*
85x45	22	V, G	-
	33*		
	45*		
114x72	33/33.5*	V, G	1x9 V
	45		
	57		
158x95	33/33.5*	V, O, G	2xAA/1x9 V 4xAA/2x9 V
	45		
	57		
190x138	45/45.5*	V, O, G	4xAA/2x9 V
	68		
	91		

\*depending on case versions

V = open front; O = open front, open rear;  
G = closed front, closed rear

detailed drawings see our website  
[www.okw.com](http://www.okw.com)



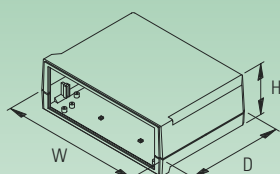
## LARGE INTERFACE PANEL

### Protection class IP 40

With front / rear panel or with sloping control panel and rear panel.

### Max. size of PCB (L x W in mm)

	top / bottom part
S	128 x 90
M	178 x 125
L	208 x 150



### THE PRODUCT

Generously dimensioned, comfortable control and interface panels distinguish the MOTEC desktop device from conventional systems.

Different sizes and combinations offer a wide selection of attractive cases.

Thanks to an innovative snap-in system, you can minimise your assembly work and at the same time improve the visual attractiveness of your products.

### YOUR ADVANTAGE

Modern and fashionable design.

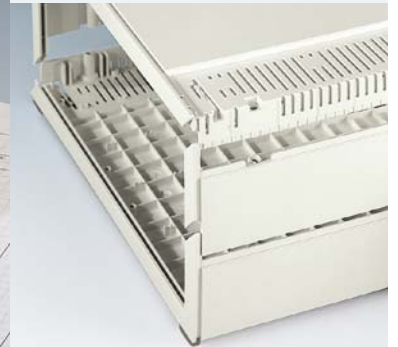
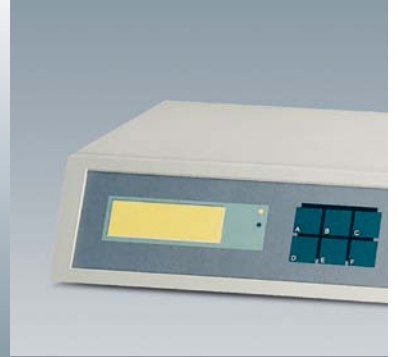
Different heights of cases for individual configurations.

Guide grooves for the vertical insertion of partitions and printed circuit boards.

Sloping control panel with recessed area to protect membrane keyboards available as an accessory.

High-quality material ABS, optionally in UL 94 HB or UL 94 V-0 flame-resistant.





## VERSATILE ELEGANCE



### THE PRODUCT

The MEDITEC family of cases is characterized by convincing design features.

Mitred corners emphasise the modern enclosure design and technical refinement at the same time.

A clear form language allows universal application; distinctions can easily be implemented through layout or colour design.

### YOUR ADVANTAGE

High stability due to internal reinforcing grid.

Enclosure design allows easy assembly.

Ergonomic sloped control panel with recessed area in order to protect the membrane keyboards. When using one side panel, the front cover ensures optimum closure of this gap.

Side trims are attached laterally, optionally available without / with ventilation. Individual colours available on request.

### High-quality appearance

Identical surface finishes for shells, side panels, operating fronts as well as front and rear panels form the basis for a practical, large-volume case system for high-quality functional assemblies.

### Ergonomics for table top, wall mounting and mobile use

The ergonomically inclined sloping control panel facilitates viewing of the display instruments as well as operating.

The handle bar gives desktop applications an ergonomically favourable angle. It can also be used for carrying the device, see page 70.



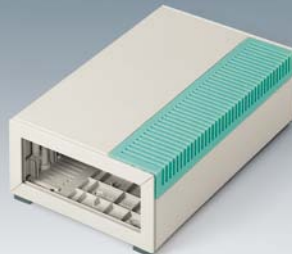


E 160

E 220

D 160

D 220

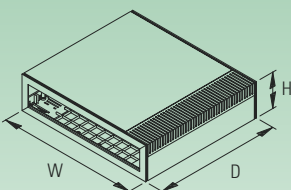


## COMPATIBLE

Protection class IP 40

Max. size of PCB (W x D in mm)

	bottom / top part
E 160	130 x 185
E 220	130 x 245
D 160	260 x 185
D 220	260 x 245



### YOUR ADVANTAGE

Designed to eurocard-sizes, double and extended.

Recessed vertical guide positions for fitting additional mounting plates behind the front panel.

Variable heights. The height can be increased by 50 mm when using the side panels (accessory). For additional heights two side panels can be assembled with one connector.

Plastic front and rear panels easy to machine.

### APPLICATIONS

Medical field and laboratory technology.

Feedback control.

Measuring and control technology.

Control peripherals, modems and interfaces. Communication and network technology.

Data collection.







## EASY TO OPERATE



### WALL MOUNTING

A special asset is the application with ergonomically inclined sloping control panel. This allows the case to be mounted within the operator's reach. Displays and readouts are easily legible for all users involved – be it the mechanical engineer, or the operator etc.

But even without a sloping control panel, MEDITEC still looks good as a wall-mounted enclosure, e.g. for small networks.

**Rational wall mounting**  
 Wall mounting brackets as accessory, easy to assemble.

**Convenient handle bar**  
 Assembly can be effected from the inside as well as from the outside. The handle bar (accessory) can be removed in the 135° position.

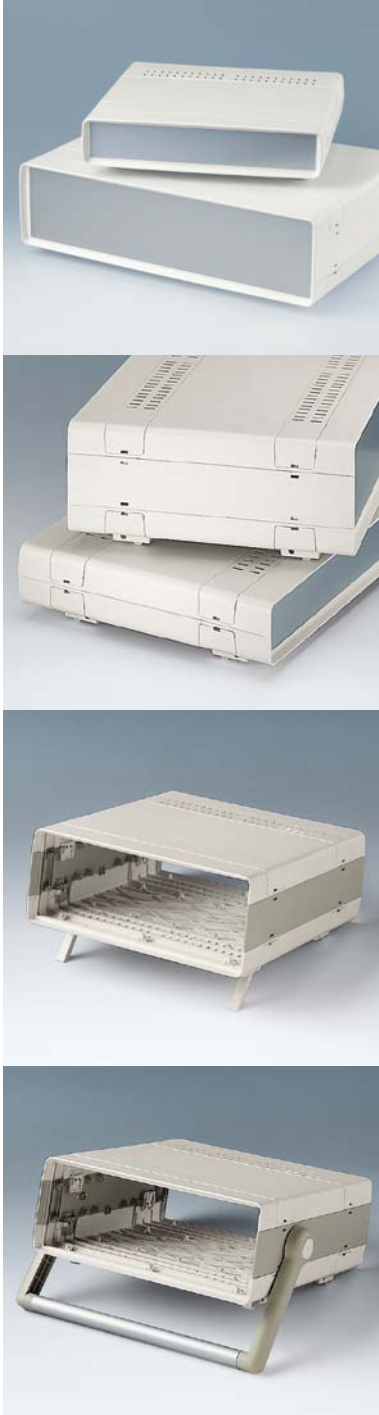
## ERGONOMIC HANDLING

### MOBILE

For mobile applications the MEDITEC enclosures can be fitted with a handle bar. The handle bar ensures a perfect grip as well as an ergonomical handling located above the centre of gravity of the enclosure.

If necessary, the adjustment mechanism allows the user to set a practical angle in situ, in increments of 30°.



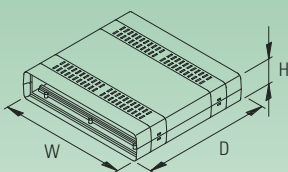


## EVERYTHING SNAPS INTO PLACE

Protection class < IP 40

Max. size of PCB (W x D in mm)

	case shell
42 TE	243 x 220
63 TE	350 x 220



### THE PRODUCT

The EURO CASE is extremely assembly-friendly.

The case shells, side panels and snap-in panels all have a strong clip together mechanism, without a single screw.

It is possible to customize the EURO CASE to your own corporate appearance by selecting the side panels and snap-in panels in your company's colours.

### YOUR ADVANTAGE

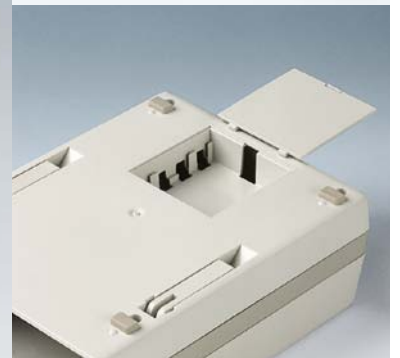
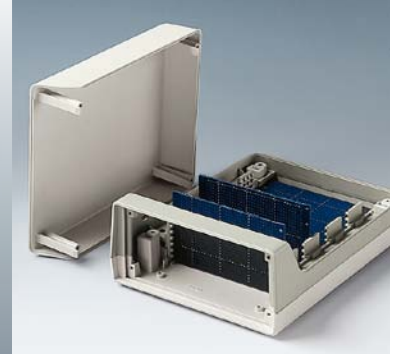
Minimum amount of assembly required thanks to the special OKW snap-lock mechanism.

Injection-moulded reinforcing ribs ensure that these conveniently light cases have a high degree of torsional resistance and rigidity.

Variable case heights (1 HE to 6 HE) for individual installation configuration – depending on space requirements.

Any problems in ventilation are solved by snap-in panels with ventilation slots.





## FAST ASSEMBLY



### THE PRODUCT

The LUX CASE range offers an unusual case design.

The three-part assembly makes the components easily accessible.

The selection of the centre section, e.g. in your company's colour, allows you to create individual electronics cases to match the corporate design of your company.

### YOUR ADVANTAGE

Vertical and horizontal PCB mounting – a special advantage of the OKW LUX CASE range is achieved by the specially designed card guide. The card guide is fitted into the centre section and can be moved horizontally.

The assembled PCBs can be simply inserted from the front. For this, the PCB is assembled with the front panel.

It is simple to use and the display instruments are easy to read off, thanks to the fold-out tilt feet or sturdy tilt bar (size 230 only). May also be used as a carry handle.

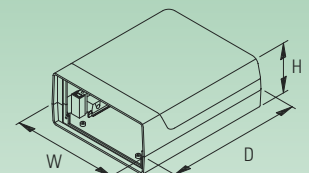
Protection class < IP 40

Max. size of PCB (W x D in mm)

	base part	top part
150	70 x 128 (without batt. comp.)	
190	100 x 165 (without batt. comp.)	
230*	129 x 205	128 x 175
230**	129 x 180	128 x 150

(PCB mounting on fastening pillars)

\*without/ \*\*with ventilation slots







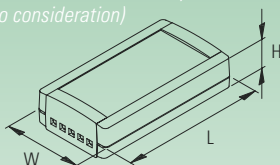
## PROFESSIONAL ASSEMBLY

Protection class IP 40

Max. size of PCB (L x W in mm)

	base part without/with ventilation slots	top part
102	96 x 46	—
123 F/H	116/112 x 60	96 x 60
154 F/H	147/143 x 75	122 x 75
194 F/H	187/183 x 106	158 x 106

(cutouts for case assembly not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

### THE PRODUCT

Screwing cases together is a thing of the past – TOPTEC makes it possible. The snap-in system really is revolutionary, since it does not only lead to savings in the assembly of the cases.

The PCBs can be fitted on both sides with interfaces that project beyond the actual width of the case. The previous assembly of the connectors on the case wall and the connection cable for the PCB can now be dispensed with.

### YOUR ADVANTAGE

Aesthetic design for indoor applications as a desk top or wall mounting system.

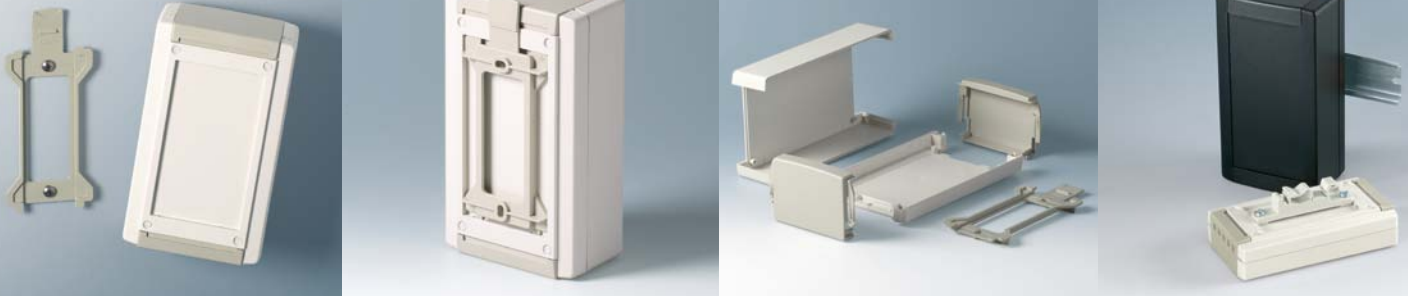
Simple screwless case assembly.

Base part with lateral opening for quick and easy equipping from all sides.

For the first time electronic parts and interfaces can be installed as a complete package.







## SECURELY HELD



### YOUR ADVANTAGE

Ideal wall mounting without changing the case design due to hidden wall suspension element with snap-in locking device.

Easy assembly on DIN rails.

Removable end panels, available with or without ventilation slots.

High and flat top part.

Recessed control area to protect membrane keyboards.

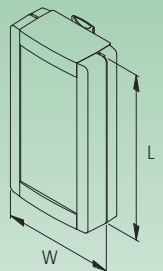
### APPLICATIONS

Universal case for electronic and electro-technical devices. For example, for monitoring purposes as check instruments, signalling equipment and control systems, medical field and laboratory technology, computer peripherals, automation etc.

### Max. size of PCB (L x W in mm)

	base part without/with ventilation slots	top part
102	96 x 46	–
123 F/H	116/112 x 60	96 x 60
154 F/H	147/143 x 75	122 x 75
194 F/H	187/183 x 106	158 x 106

(cutouts for case assembly not taken into consideration)

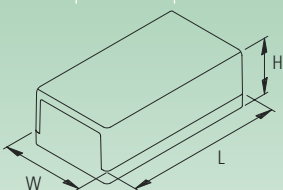




## FAST AND SIMPLE MOUNTING

### Max size of PCB (L x W in mm)

types	base part	top part (type H only)
100 N, H	43 x 76	–
120 N, H, S	58 x 96	58 x 94
120 A	57 x 106	–
150 N, H	73 x 126	72 x 142
150 A	67 x 138	–
189 N, H, L	103 x 160	102 x 158/ 101 x 180
210 A	109 x 194	–



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

### THE PRODUCT

OKW FLAT-PACK CASES represent low-priced housings for your electronics.

The bottom parts are open at the sides and are thus particularly useful for all installation and service work.

Different sizes, heights and versions make functional and practical applications possible.

### TYPES

With low (N) and high (H) top part. Special version with handle bar for convenient canting or easy carrying.

With ventilation slots for components dissipating high heat (189 L).

With slots on the top part for miniature appliances with sound signal (120 S).

Screwless assembly with separate front panel in aluminium, easy machining. Control elements and lettering are protected through a raised edge on the case (type A).



# ART-CASE LEVEL/INCLINED

Order data on pages 163-165

**OKW**  
GEHÄUSE  
SYSTEME



R110



S110



O160



E160



R110



O160



## GEOMETRIC PERFECTION



### THE PRODUCT

The ART-CASE series of cases with the basic shapes "round", "square", "oval" and "edged" sets new standards in design and function.

Different versions of the bottom and top parts as well as the base create interesting combinations and geometrical arrangements – for first-class visual pleasure!

### LEVEL / INCLINED

Ergonomically shaped case design. Practical for operating and reading-off.

Base 30°/55° for different inclinations.

Flat top part with recessed operating area for the protection of the membrane keyboard.

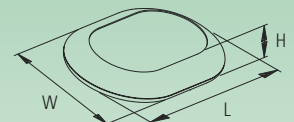
Available without/with battery operation. Battery compartment for 2 x AAA batteries as accessory or integrated supports for 2 x AA in the plane base.

Protection class IP 40

Max. size of PCB (L x W in mm)

	base part		top part
	"level"	"inclined"	
R110 F/H	ø 86	ø 86	ø 82 / 58x58
S110 F	–	–	94 x 78
O160 F/H	–	–	107 x 64
E160 F	–	–	144 x 78

(cutouts for pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)



## FASHIONABLE CASE DESIGN

### Applications

Ideal for indoor electrical and electronic applications, e.g. for transmission and reception units in building services management systems and building installations.

Also in medical technology, computer peripherals, security technology etc.

### WALL / CEILING

Direct wall/ceiling mounting or using the wall suspension elements by securing the cases with a screw is possible.

Various angles of inclinations of bottom parts and base versions provide an user-friendly operating area – within the operator's reach and easy legible.

The plane base serves as a spacer for ceiling/wall mounting and offers space for cable routing or 2 mignon cells 1.5 V (AA).

### FLUSH-MOUNTING BOX

The openings of the bottom parts are matched to flush-mounting boxes  $\varnothing$  50 mm. Rational assembly with bayonet locking technology of ART-CASE R110 F/H. If required, it can be secured using the supplied screw.

Use with a level base is also possible on the flush-mounting box. Two screw channels are already integrated for attachment purposes.





# ART-CASE MOBILE

Order data on pages 163-165

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SYSTEME



## DESIGN IN HAND



### MOBILE

The enclosure design with its rounded, gentle contours also favours hand-held enclosure applications.

### YOUR ADVANTAGE

Available without/with battery operation. Battery compartment for 2 x AAA batteries as accessory. Easy accessible from the outside.

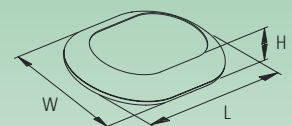
Flat top part with recessed operating area for the protection of the membrane keyboard.

### Protection class IP 40

### Max. sizes of PCB (L x W in mm)

	bottom part	top part
R110 F/H	ø 86	ø 82 / 58x58
O160 F/H	—	107 x 64

(cutouts for pillars not taken into consideration)



detailed drawings see our website  
[www.okw.com](http://www.okw.com)

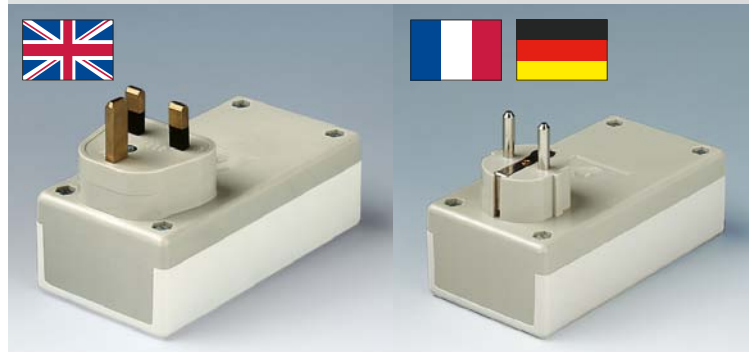
# ART-CASE

Order data on **pages 163-165**



# PLUG CASE

Order data **on page 163**



## ERGONOMIC

## RELIABLE CONTACT



### EURO

Euro plug module in accordance with DIN VDE 0620 part 101.

Plug section in flame-resistant materials (UL 94 V-0).

In the basic enclosure shapes "round" and "square" available.

Fastening pillars for mounting PCBs.

### Protection class IP 40

With "level" or "inclined" bottom part for a user-friendly operating area – good accessible and easy legible.

### Protection class < IP 40

Simply an extremely functional solution for your electronics – robust and impact-resistant.

### D, F, UK

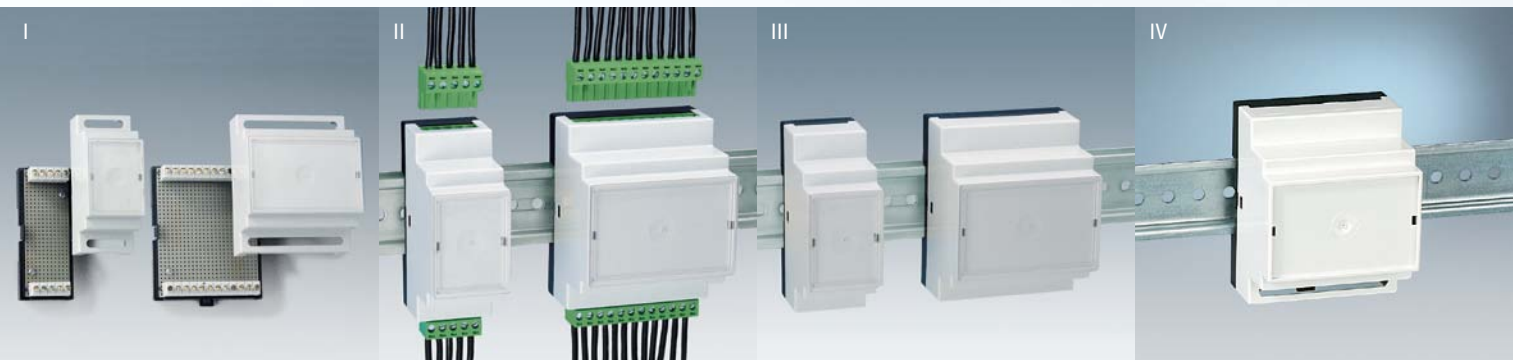
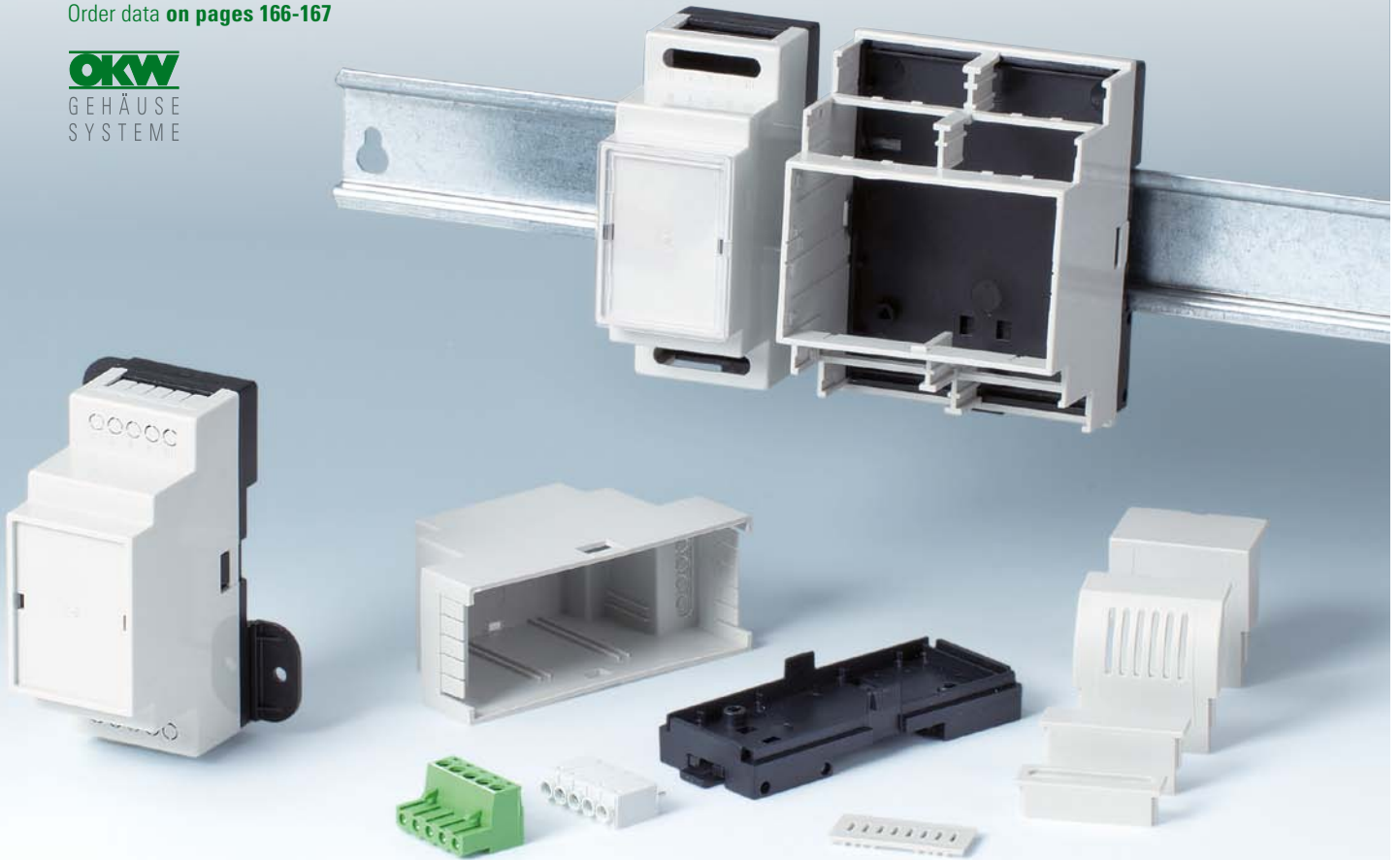
Flame-resistant materials (UL 94 V-0).

German version also with integrated socket.

Robust and impact-resistant. The ball-thrust hardness test is performed at 125°C.

Fastening pillars for the PCB mounting, suitable for self-tapping screws (set with 4 pieces supplied with the case).





## LOCKS ONTO DIN RAILS



### THE PRODUCT

The fast and simple locking capability onto standardised rails complying with DIN EN 60715 TH35 characterises the RAILTEC B family of cases.

Different top parts make the case into a versatile and rational connection system.

### YOUR ADVANTAGE

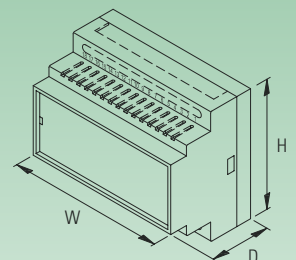
6 sizes following DIN 43880, unit 1.

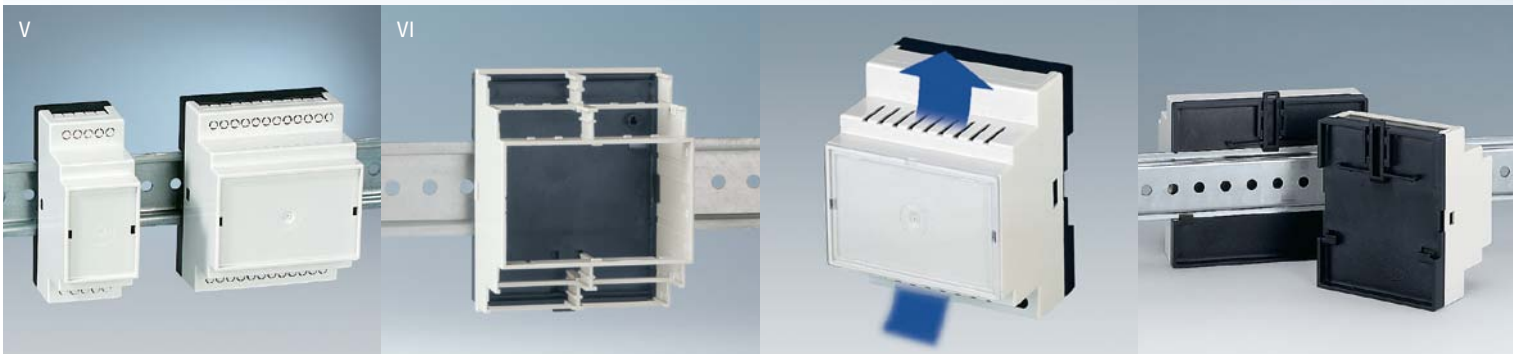
Optionally 1 or 2 connection levels for case version VI; individual configuration with system components – according to need. Terminal guards in the higher versions give more room in the enclosures and a bigger surface to mill for bigger terminals.

Suitable for DIN rails EN 60715 TH35 or direct wall mounting.

### Sizes (W x H x D in mm)

2 modules	35 x 86 x 58
3 modules	52 x 90 x 58
4 modules	70 x 86 x 58
6 modules	105 x 86 x 58.5
9 modules	157 x 86 x 58.5
12 modules	210 x 90 x 58





## RATIONAL CONNECTING SYSTEM

### Different termination options each for commercial components like

- terminals
- PCB plug headers
- front connectors

When using terminals, the individual conductors can be connected and disconnected while the case is closed.

The connector lead avoids wiring faults when devices are exchanged during regular servicing.

### YOUR ADVANTAGE

Without/with ventilation slots for good heat dissipation.

Flexible assembly. PCB positioning in all 3 directions: Base part with fixing pillars, top parts with guide ridges.

Locking clip preassembled in base part.

Transparent lid protects display and operation elements.

### APPLICATIONS

Universal use as installation case. Fully insulated and protected according to VBG4 as well as IEC 529/ DIN VDE 0470-1. Corresponding to the regulations of the machine-building and motorcar industry. Especially for the control techniques.





**OKW**  
GEHÄUSE  
SYSTEME



## PERFECTLY COMBINED



### THE PRODUCT

The comprehensive range of cases for DIN rail mounting as well as for direct wall mounting.

All types are extremely installation-friendly, for mounting components as well as for connection work!

### YOUR ADVANTAGE

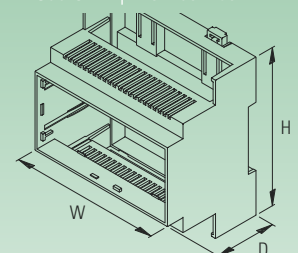
Suitable for DIN rails EN 60715 TH35 or direct wall mounting. Adapter for TH15 and G32 (1-4 modules) as accessory.

Outstanding material properties for tough conditions, with high temperature stability (UL 94 V-0).

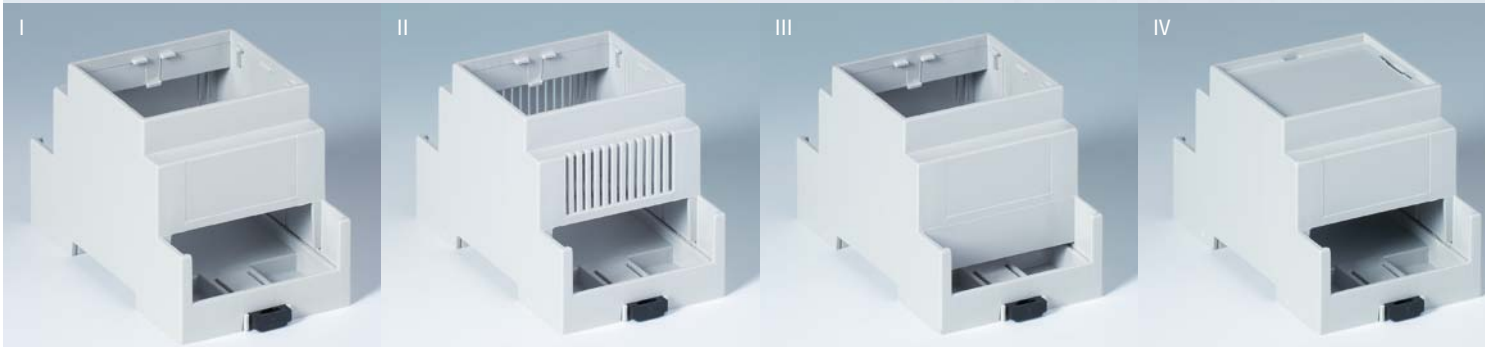
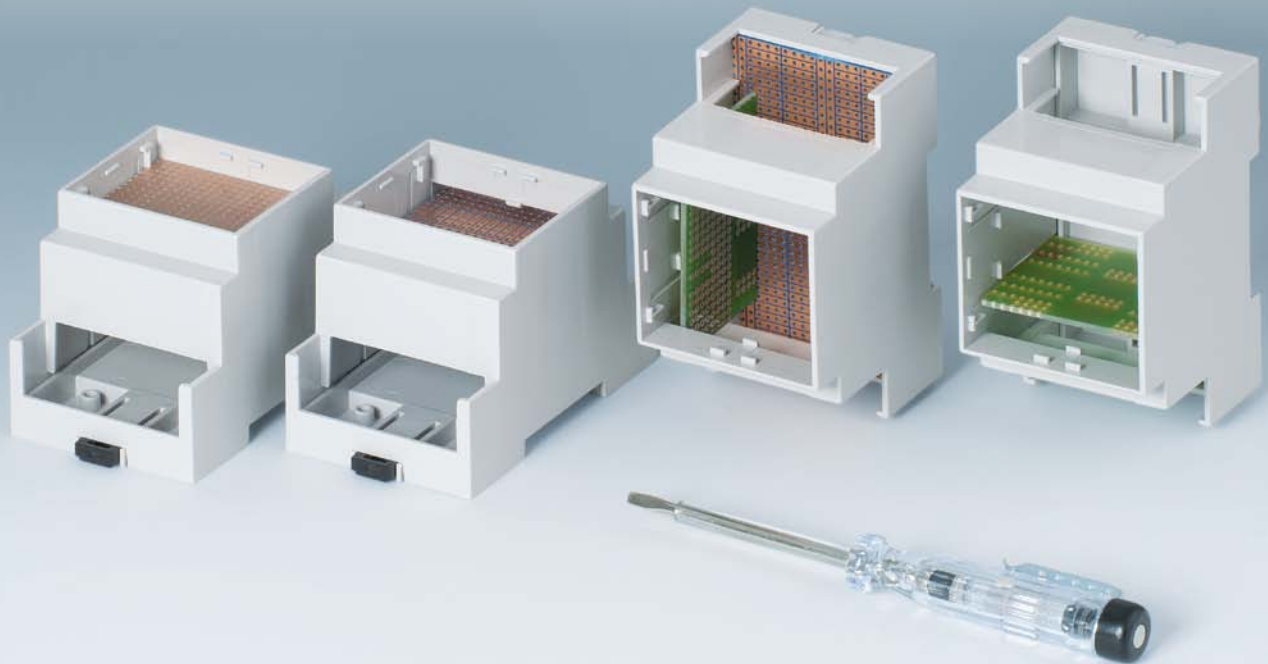
Easy assembly through snap-in installation of the case parts.

### Sizes (W x H x D in mm)

1 Modul	17,5 x 90 x 58
2 Module	36 x 90 x 58
3 Module	53 x 90 x 58
4 Module	71 x 90 x 58
5 Module	88 x 90 x 58
6 Module	106 x 90 x 58
9 Module	160 x 90 x 58
12 Module	210 x 90 x 58



detailed drawings see our website  
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## FLEXIBLE PCB ASSEMBLY

### Different connection options for commercial components such as:

- terminals
- PCB plug headers
- front connectors

Connection possible from 1 side and/or 2 sides.

Terminal guards closed, perforated or with holes.

### YOUR ADVANTAGE

Optional frame allows additional PCB position as well as the use of the hinged convex front lid.

Flexible assembly.  
PCB positioning in all 3 directions:  
Base part with fixing pillars (except 1 module), top parts with guide ridges.

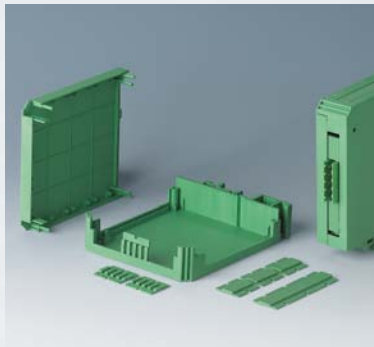
Front panels and front lids in different versions.

### APPLICATIONS

Automation. Building and safety technology. Heating and air conditioning technology. Especially suitable as an automatic control case for time controllers, sensors, relays, signal distributors, lighting controls etc.



Order data on page 170

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 SYSTEME


## FOR PLUG HEADERS



### YOUR ADVANTAGE

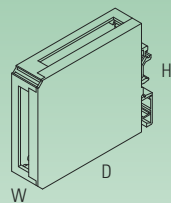
Suitable for EN 60715 TH35 and G32 DIN rails.

Connection possible from 3 sides.

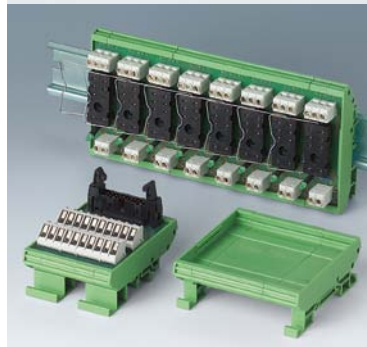
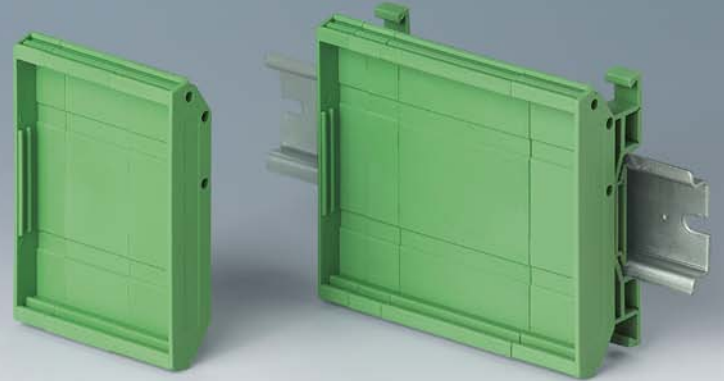
For plug headers (ideal in 5.0 grid, max. 12-pin). Unused terminal areas can be closed with push-on side walls, either with ventilation slots or without.

Flame-resistant material (UL 94 V-0).

**Sizes**  
**(W x H x D in mm)**  
 22.5 x 82 x 90  
 45.5 x 82 x 90



Order data on page 171



## PCB CHASSIS



### YOUR ADVANTAGE

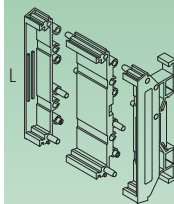
Suitable for EN 60715 TH35, TH15 and G32 DIN rails or direct wall mounting with wall suspension element.

More flexibility through simple replacement of the interfaces.

Modular design for individual component mounting.

Flame-resistant material (UL 94 V-0).

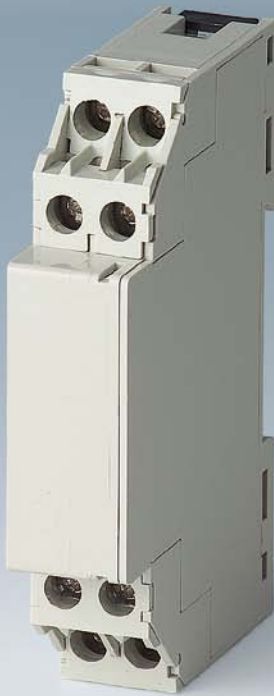
**Sizes**  
 72 mm long  
 107 mm long  
 Modular design.



detailed drawings see our website  
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# RAILTEC CM

Order data on page 170



## WITH CONNECTIONS



### YOUR ADVANTAGE

Suitable for EN 60715 TH35 DIN rails. Adapter for TH15 and G32 as accessory.

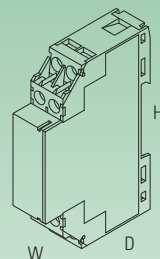
Integrated connection system: 8 connections each on four levels; for cable cross-sections of max.  $2 \times 2.5 \text{ mm}^2$  rigid or stranded conductor design (ring eyelet/cable lug/flat connector).

17.5 mm module width, individual expandable.

Flame-resistant material (UL 94 V-0).

Size  
(W x H x D in mm)  
18 x 89 x 54

Modular expandable.

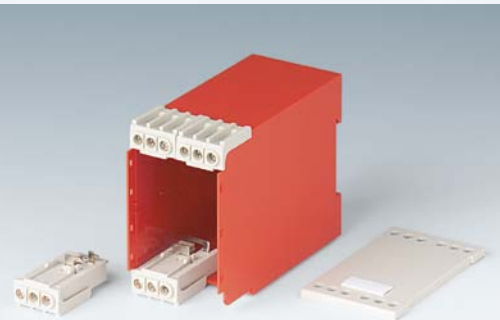
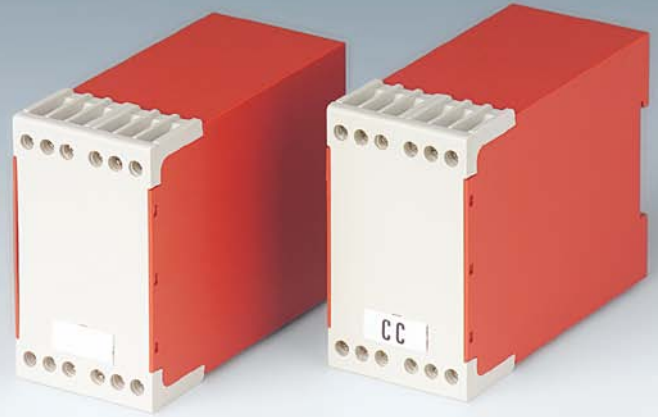


# RAILTEC CC

Order data on page 170

85

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## WITH CONNECTIONS



### YOUR ADVANTAGE

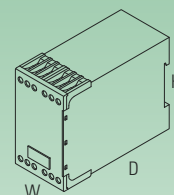
Suitable for EN 60715 TH35 DIN rails. Adapter for TH15 and G32 as accessory.

Integrated connection system: 12 connections per case; for cable cross-sections of max.  $2 \times 2.5 \text{ mm}^2$  rigid or  $2 \times 1.5 \text{ mm}^2$  stranded conductor design; PCB pins reduce the work involved in wiring.

Removable front with integrated clips for labelling.

Flame-resistant material (UL 94 V-0).

Size  
(W x H x D in mm)  
45 x 78 x 99



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# DIN-MODULAR CASES TYPE B

Order data on pages 174-175

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## MOUNTING OF PCBs FROM THE FRONT & ABOVE



### THE PRODUCT

The DIN-MODULAR CASE TYPE B is available in three different designs for mounting control panels complying with DIN IEC 61554.

### DESIGNS

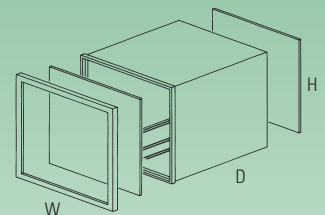
**Design 1**  
For horizontal slide-in mounting of PCBs from the front. Closed cases with removable front frame and rear panel.

**Design 2**  
Versions with separate lids allow vertical and horizontal slide-in PCB assembly.

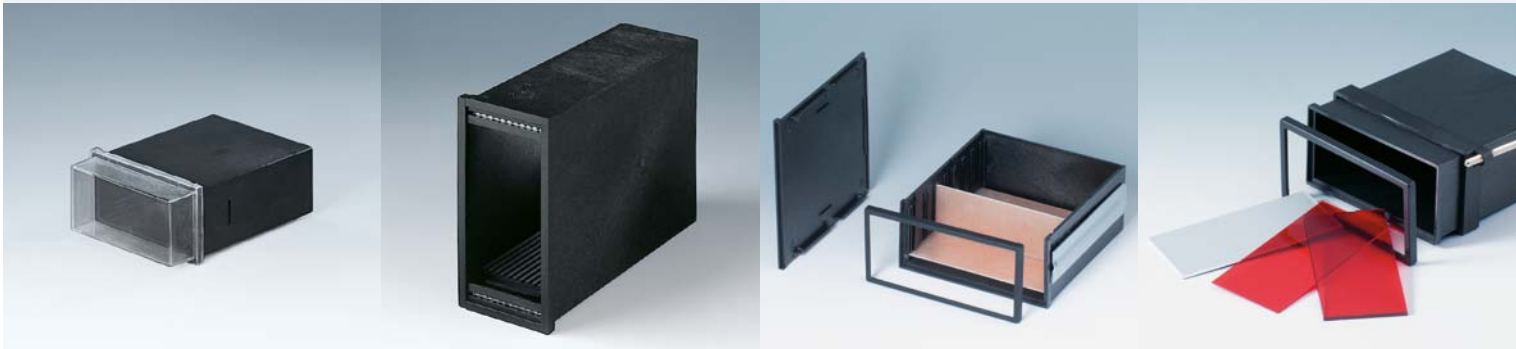
**Design 3**  
A special version like a compact 19" subrack rounds off the comprehensive range.

Protection class < IP 40

**Norm dimensions design 1**  
96 x 48mm 72 x 72 mm 96 x 96 mm



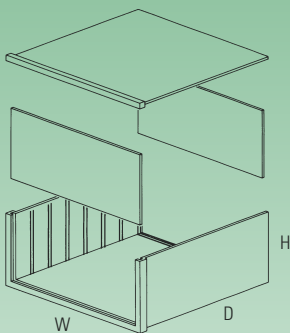
detailed drawings see our website  
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## MULTIPLE APPLICATIONS

### Norm dimensions design 2

144 x 72 mm    144 x 144 mm



### Norm dimension design 3

72 x 144 (same as design 2, but particularly designed for 19"-system slide-in assemblies 12 TE, 3 HE)

### YOUR ADVANTAGE

Case made of glass-fibre reinforced Noryl with outstanding mechanical and electrical properties, corresponding to UL-standard 94 V-1.

Available in 3 different designs, depending on the inserts.

All components including the electronic parts can slide into the case from the front side resp. from above, dependent of the case design.

The rear panel has fixing ribs to hold PCBs and slots for the plug connectors.

### YOUR ADVANTAGE

Holder or bracket for secure mounting within the control panel.

Transparent snap-in cover (accessory) protects displays and operating elements (96 x 48 – 144 x 72).

### APPLICATIONS

Case system for a multiple applications. Especially suitable for measuring, control technology and remote controls.



# DIN-MODULAR CASES TYPE A

Order data on pages 176-177

**OKW**  
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SYSTEME



## RATIONAL LOCKING ASSEMBLY



### THE PRODUCT

The DIN-MODULAR CASES TYPE A differ from conventional systems for mounting control panels complying with DIN IEC 61554 through simple, screwless assembly of all case parts. This reduces production work and expenditure to a minimum.

A further advantage of this design principle is the implementation of optional case lengths to match the application exactly.

### YOUR ADVANTAGE

Material corresponds to UL 94 V-0: self-extinguishing and shock resistant. High standard of mechanical and electrical properties.

7 different standard dimensions and variable case depths.

Fixing of the PCBs by the rear frame.

Snap-in front and rear panels.

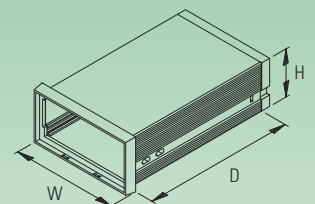
Fastening elements for mounting the control panels are supplied with the case.

Protection class < IP 40

### 7 standard dimensions (mm)

72 x 36	48 x 48	96 x 48
72 x 72	96 x 96*	144 x 72*
144 x 144		

\*does not correspond exactly to DIN IEC 61554

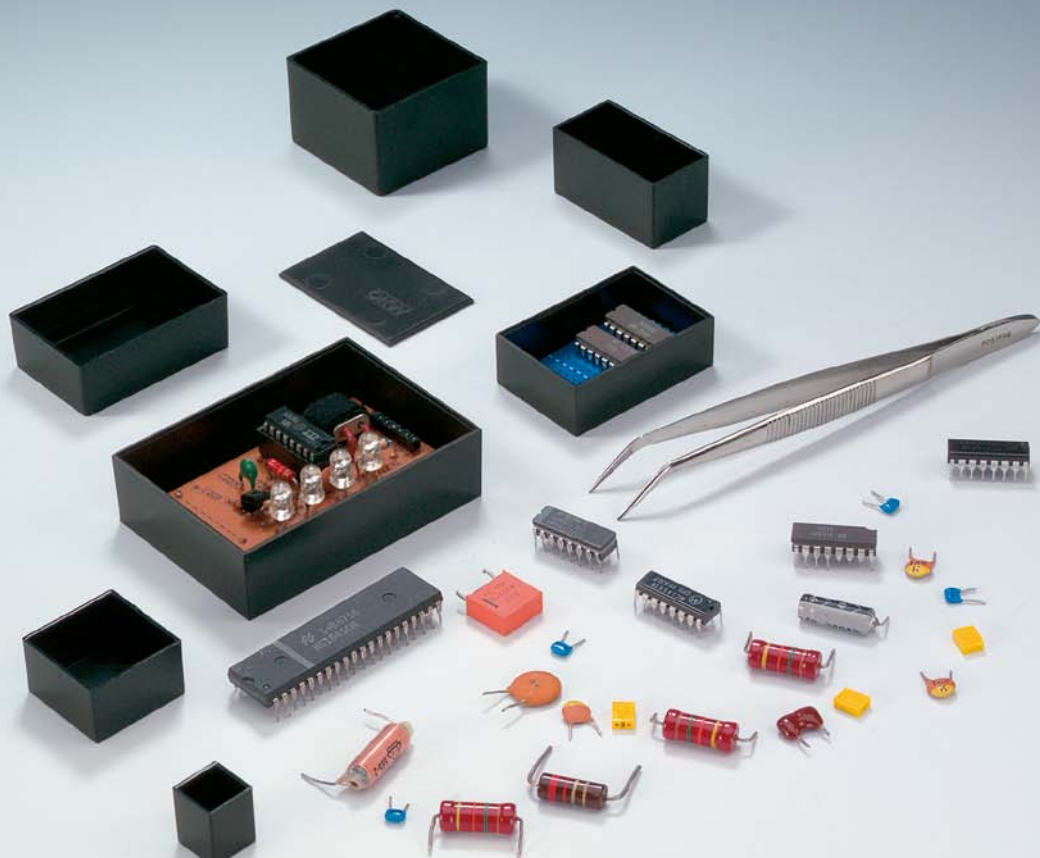


detailed drawings see our website  
[www.okw.com](http://www.okw.com)



# POTTING BOXES

Order data on page 173



## FOR EASY ENCAPSULATION

### Sizes (L x W x H in mm)

Duroplast  
20 x 20 x 13.1 – 100 x 100 x 40

PA 6.6  
14 x 14 x 11.5 – 46.2 x 46.2

ABS  
12.3 x 12.3 x 15.3 – 67.5 x 35.8 x 46.3

### THE PRODUCT

OKW POTTING BOXES – a comprehensive range of boxes for potting electronic assemblies. With special cost advantages for series-type production.

Potted assemblies are protected from shock as well as temperature, dampness and chemical influences. The versions made of Duroplast are less resistant to impact than the Polyamide 6.6 or ABS models.

### YOUR ADVANTAGE

Duroplast  
Resistant to deformation and extreme temperatures.

Polyamide 6.6  
Good value for money. High-impact.

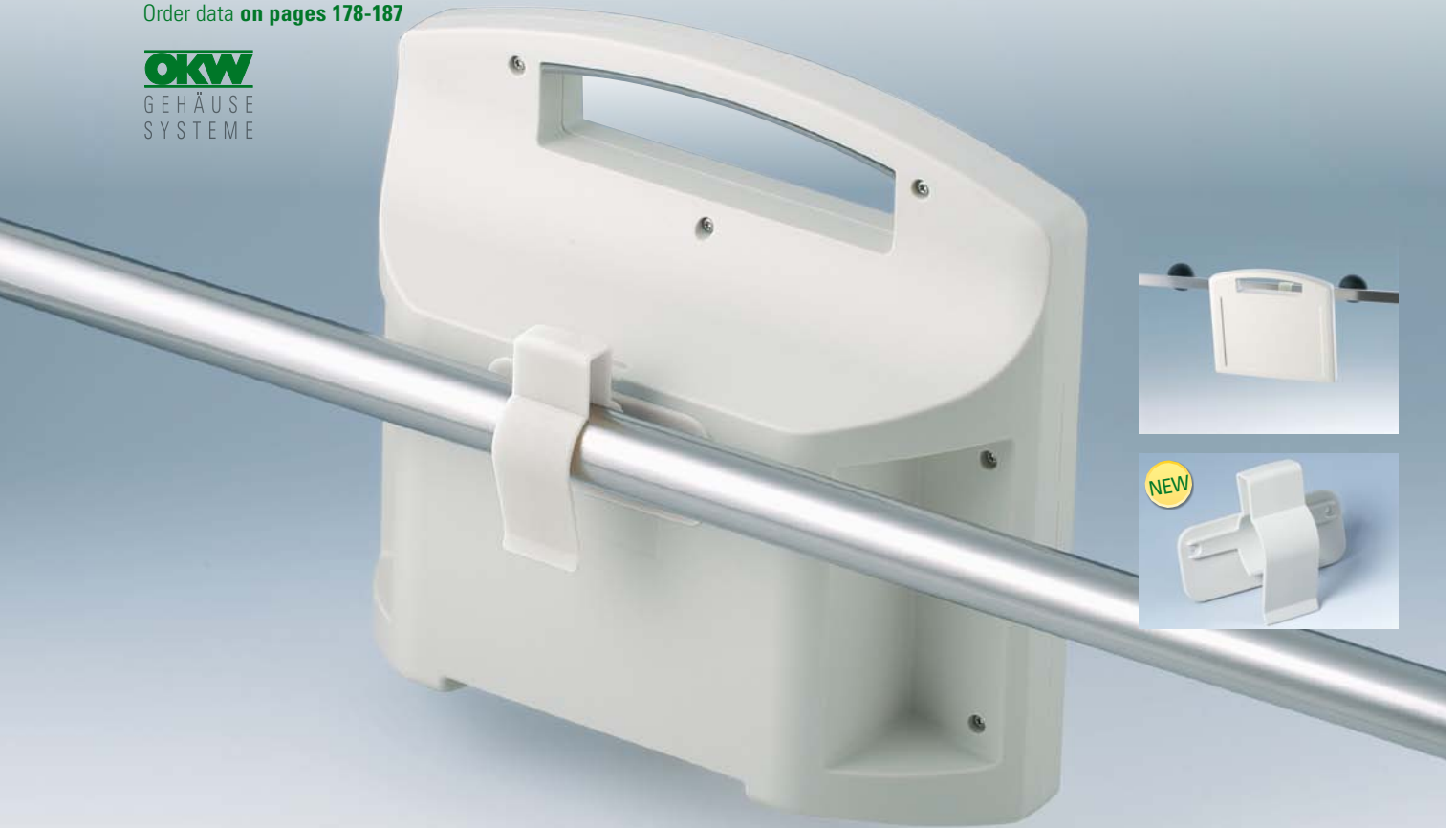
ABS  
Good value for money. Preferably for potting small assemblies.





Order data on pages 178-187

**OKW**  
GEHÄUSE  
SYSTEME



## SECURELY HELD



### THE PRODUCT

OKW offers you a comprehensive range of ACCESSORIES. Adapted to the application, our standard cases can thus be modified in many different ways.

OKW ACCESSORIES are designed to be practical, thus providing you with more flexibility for your individual case.

Here, too, numerous solutions show our high propensity to innovate.

### WALL / RAIL

Wall suspension elements for hidden or external wall mounting.

Holding clamp for round tubes or standardised rails.

Fastening elements for DIN rails according to DIN EN 60715 TH35 and G32.



**Rational hinge and locking techniques**  
for easy opening of the devices



NEW



## ERGONOMIC & RELIABLE POSITIONING

### Handle bar in different materials

Side arms made of polyamide with aluminium profile.

Side arms made of diecast zinc for high load with aluminium profile.

Individual profile lengths (suitable profile separately on demand).

### HOLDING DEVICE

Holding devices for universal use. With ball joint, flexible swan neck, for bicycle assembly or with suction pad. Horizontal and vertical tilt angle, ergonomically inclined for the operator. Suitable adapter for the enclosures as accessory.

Holding elements with laterally adjustable jaws for individual applications.

### POSITIONING

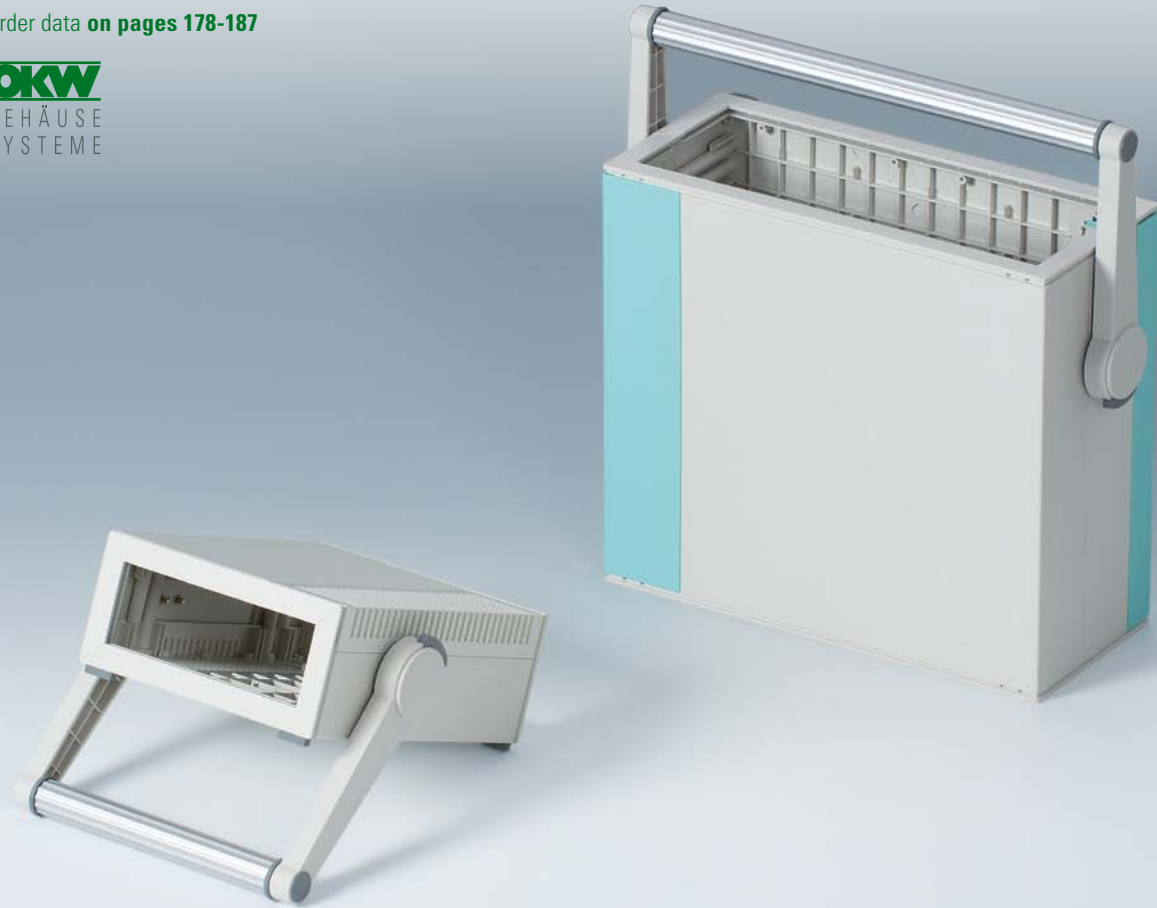
Tilt foot bar resp. handle bar facilitates desktop applications ergonomical inclination angle. This facilitates viewing of displays as well as operating.

Case feet ensure reliable positioning. Versions with tilt legs provide ergonomic inclination angle.



Order data on pages 178-187

**OKW**  
GEHÄUSE  
SYSTEME



## ON THE WAY



### APPLICATIONS

Universal belt/pocket clip.



Ring eyelet for threading in hand straps and the like.



High-quality metal key ring.

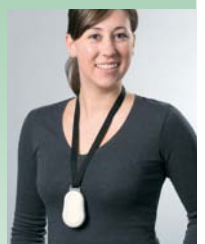


Hand / wrist / neck and belt straps for more comfort in use.

### MOBILE

For mobile use, the enclosures can also be combined with a carrying handle. This allows a secure grip as well as ergonomic handling above the centre of gravity of the enclosure. If necessary, the adjustment mechanism also allows the user to set a practical angle in situ, in increments of 30°.

More comfort  
in use





## INTERNAL POWER SUPPLY

### Battery spacer

For taking up the gap when fitting AA cells instead of a 9 V flat battery in the battery compartment.



### BATTERY COMPARTMENTS

Battery compartments and holders in different versions and types for direct installation in front and rear panels or enclosure walls. Easy battery replacement.

Battery holder, battery clips and button cell holder with connector pins for mounting on PCBs.

### CONTACTS

Plug-in contacts with lateral or T-shape cable connection suitable for 9 V flat battery.

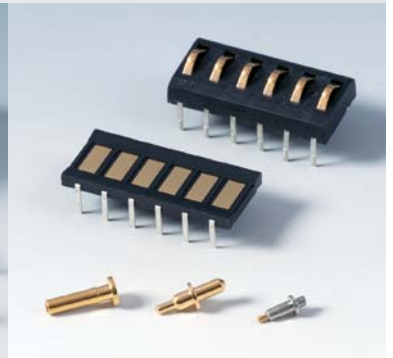
Wide choice of battery clips, in different materials for OKW battery compartments – single pieces or supplied as sets.





Order data on pages 178-187

**OKW**  
GEHÄUSE  
SYSTEME



## CONNECTIONS



### CABLE CONNECTION

Universally applicable cable glands for different cable cross-sections as kink protection and attractive closing point.

Wide choice of cable glands with strain relief of the best material for shake and twist-proof cable lead-in. The sealing ring for external thread preserves the high protection class IP 68.

Optionally available strain relief protects cable connections from mechanical stress.

### INTERFACES

Pressure compensation element with particularly high air flow to protect sensitive electronics in case of changing weather conditions. Also suitable for large-volume protective cases and control cabinets. High protection rating IP 56.

USB end cover for connector types A according to DIN IEC 61076-3-107.

Contacts for transmission of data and charging current.



Perfect contacting with OKW enclosures



# ACCESSORIES

Order data on pages 178-187



## SMALL PARTS FOR ASSEMBLY



### SMALL PARTS

Self-tapping screws for fastening components, boards and PCBs with crosshead (PZ1) or Torx (T10).

Supply and mounting of threaded bushes or bolts, distance spacers etc.

### Torx screwdriver

With ergonomic handle for reliably turning, tightening and loosening Torx T10 type screws.

# ASSEMBLY

95

**OKW**  
GEHÄUSE  
SYSTEME



## COMPLETE YOUR DEVICE

We will also be pleased to perform the necessary modifications and all assembly work to complete your device.

See pages 108-119



## TUNING KNOBS, SLIDE CONTROL KNOBS

### APPLICATION-ORIENTED

From our wide selection of knobs, select the size and design which fully meets your specific requirements.

### THE RIGHT CHOICE

Aesthetically pleasing knob design for a modern, innovative image for your equipment.

Quickly available – standard versions available from stock – **in units up to 10 pieces.**

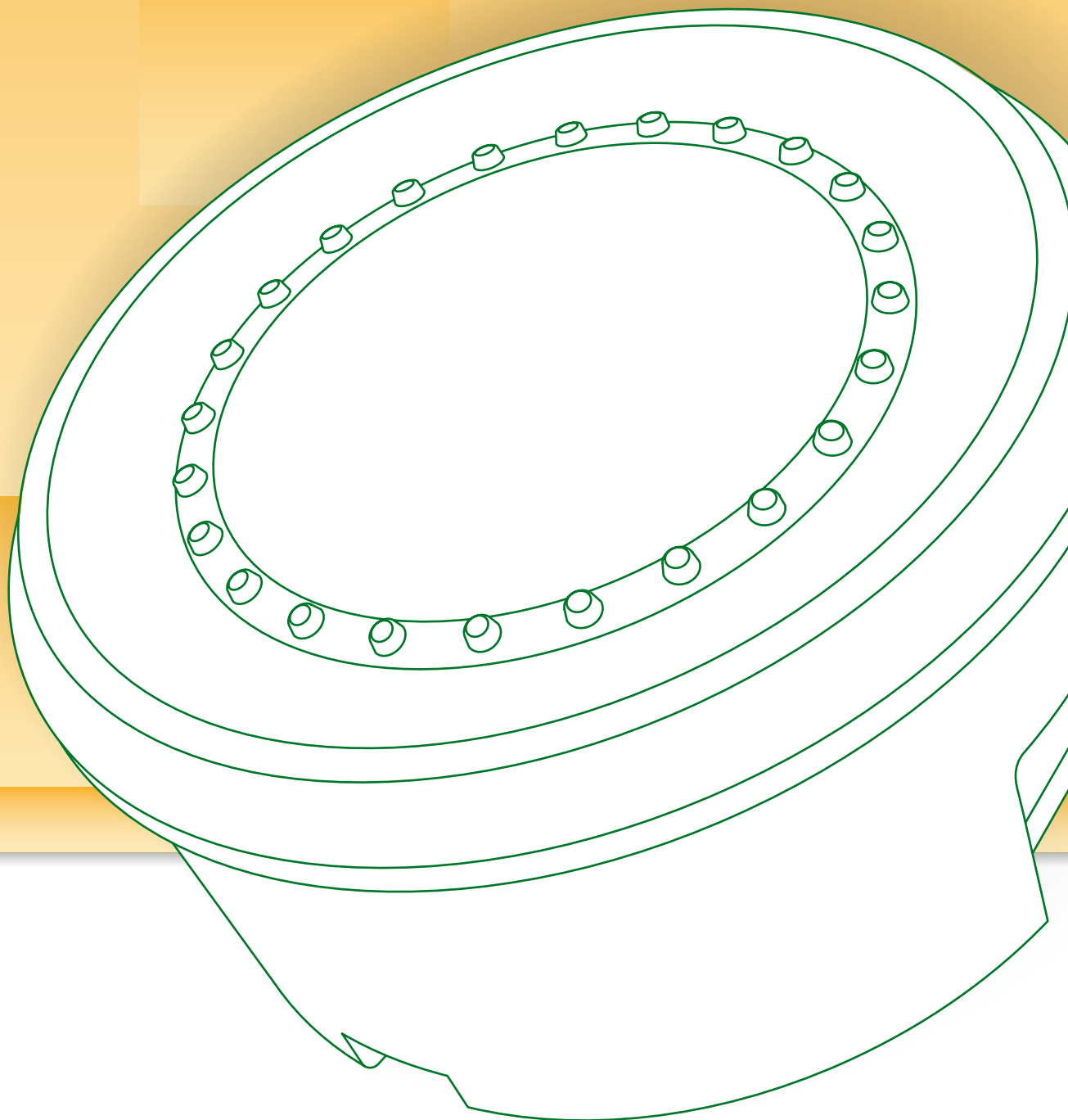
Large choice of types and number of accessories for individual applications.

Well-proven for electro-mechanical rotary potentiometer with shaft ends or flattened ends. Secure fit on the axle.

With/without Illumination.

Flush-fitting and surface-mounted versions.

Special colours on request.





# STAR-KNOBS FLUSH-FITTING

Order data on pages 188-189

**OKW**  
GEHÄUSE  
SYSTEME



## LUMINOUS CONTROL



### THE PRODUCT

One could not have chosen a more suitable name, for the STAR-KNOBS – like the stars in the sky – they represent the visual highlights of your equipment.

The illumination guides the user to the central user interface and also gives impressive emphasis on innovative equipment design.

The STAR-KNOBS are available flush-fitting or surface-mounted.

### APPLICATIONS

For rotary potentiometers or rotary pulse generators with round shaft ends in accordance with DIN 41591, including touch function.

Measuring and control technology.

Medical field and laboratory technology. Wellness.

Heating and air conditioning.

Communication. Building.

### Sizes (mm)

ø 33, ø 41

### Knob colours



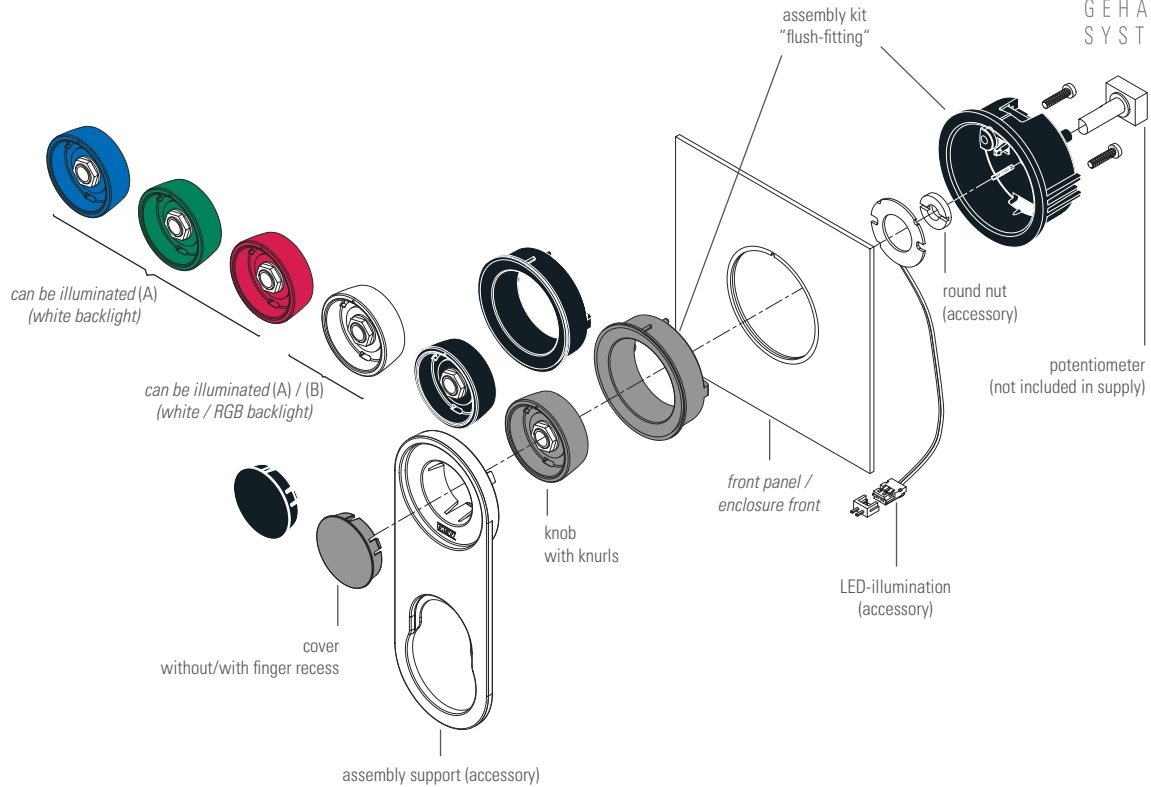
### Cover colours



### Fastening

Tried and tested collet fixture system with secure fit on the axle.

detailed drawings see our website  
[www.okw.com](http://www.okw.com)



## FLUSH-FITTING

### Backlight

Optional illumination possible with modern, energy-saving SMD LED technology.



With **white backlight** you can realize the colours diamond, ruby, emerald and sapphire.



For individual colours there is a **RGB backlight** available. In this way you can display your own colour.

### FLUSH-FITTING

The flush-fitting installation in the build-in version of the STAR-KNOBS represents an attractive transition from the knob to the front of the device.

Your advantage: there are no projecting operating elements that can be actuated unintentionally.

The finger recess in the lid as well as knurls on the knob guarantee ergonomic operation.

An assembly support for mounting and adjustment is available as an accessory.

### ILLUMINATION

With the **flush-fitting version** the knob can be illuminated, that is, a ring lights up between the recess and the knob cover.

For this please order **the translucent knob**.

The suitable PCB with LED illumination is available as accessory: white / RGB backlight.



# STAR-KNOBS SURFACE-MOUNTED

Order data on pages 188-189

**OKW**  
GEHÄUSE  
SYSTEME



## LUMINOUS CONTROL



### THE PRODUCT

One could not have chosen a more suitable name, for the STAR-KNOBS – like the stars in the sky – they represent the visual highlights of your equipment.

The illumination guides the user to the central user interface and also gives impressive emphasis on innovative equipment design.

The STAR-KNOBS are available flush-fitting or surface-mounted.

### APPLICATIONS

For rotary potentiometers or rotary pulse generators with round shaft ends in accordance with DIN 41591, including touch function.

Measuring and control technology.

Medical field and laboratory technology. Wellness.

Heating and air conditioning.

Communication. Building.

### Sizes (mm)

ø 33, ø 41

### Knob colours



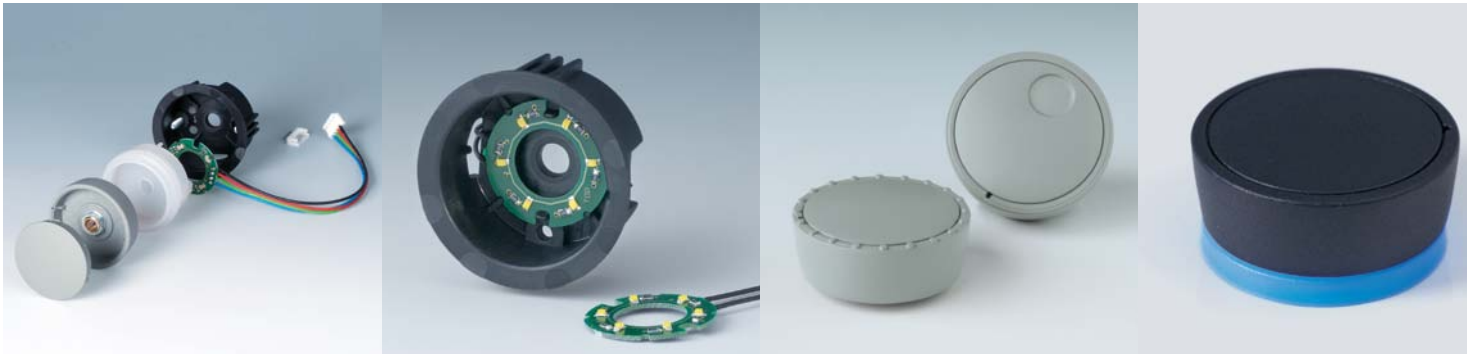
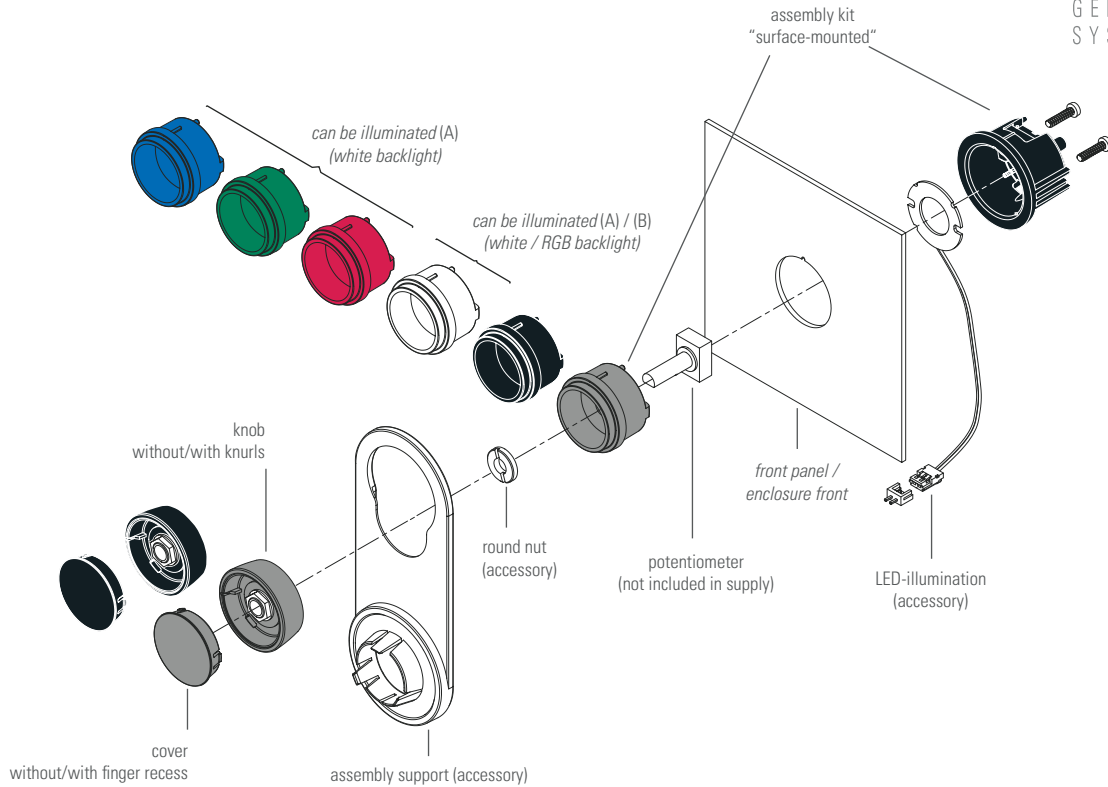
### Cover colours



### Fastening

Tried and tested collet fixture system with secure fit on the axle.

detailed drawings see our website  
[www.okw.com](http://www.okw.com)



## SURFACE-MOUNTED

### Backlight

Optional illumination possible with modern, energy-saving SMD LED technology.



With **white backlight** you can realize the colours diamond, ruby, emerald and sapphire.

### RGB

For individual colours there is a **RGB backlight** available. In this way you can display your own colour.

### SURFACE-MOUNTED

With the surface-mounted version, the knob design makes a great impression thanks to the slight inclination of the body towards the inner axis, thus allowing ergonomically favourable operation.

An assembly support for mounting and adjustment is available as an accessory.

### ILLUMINATION

With the **surface-mounted version**, the knob is mounted on an approx. 3 mm high ring, which can be illuminated if required.

For this please order **the translucent assembly kit**.

The suitable PCB with LED illumination is available as accessory: white / RGB backlight.







## DESIGNER KNOBS



### THE PRODUCT

Our TOP-KNOBS are incomparable in design and are thus the ideal solution for all users looking for that special something.

By selecting a marking element geared to the application, you define the function of the tuning knob and at the same time give your equipment a modern, contemporary appearance.

The invisible screw-type fixture gives your equipment a pleasing and modern appearance.

### YOUR ADVANTAGE

Aesthetically pleasing knob design.

The fixing technique rules out any possibility of contact with live parts.

Functional marking elements, e.g. for fine calibration. Easy to fit.

In connection with rotary potentiometers, the arrangement of the axis is recessed in order to accommodate external nuts and to make sure that the knobs form an even line with the front panel.

### Sizes (mm)

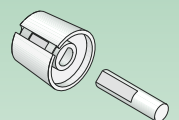
ø 16, ø 20, ø 24, ø 31, ø 40

### Fastening

with lateral screw fixing on shaft ends according to DIN 41591



pinned onto the axes with flattened shaft ends ø 6/4.6 mm



# COM-KNOBS

Order data on pages 192-193



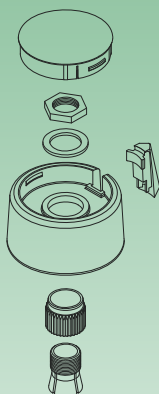
## MODERN APPEARANCE

### Sizes (mm)

ø 16, ø 20, ø 23, ø 31, ø 40, ø 50

### Fastening

with collet fixture system for rotary potentiometer with shaft ends according to DIN 41591



### THE PRODUCT

Outstanding appearance is characteristic of the COM-KNOBS.

Aesthetic design and a modern selection of colours in pastel tones give the appliances a high-quality appearance.

Different sizes and combinations also provide a wide selection of attractive tuning knobs with the tried and tested collet fixture system.

### YOUR ADVANTAGE

Knob design for a modern, innovative image for your equipment.

Reliable operation with the tried and tested collet fixture system: convenient assembly of knobs from the front and tight fitting on the axis.

Without/with marking element.

For size 40 and larger, the cover is also available with a finger recess for rational handling during adjustment.



# COMBINATION KNOBS

Order data on pages 194-199

**OKW**  
GEHÄUSE  
SYSTEME



## WELL ADJUSTED



### THE PRODUCT

The name COMBINATION KNOBS stands for an exceedingly functional range of rotary buttons with a reliable collet fixture system.

They offer a versatile range of possible applications as round knobs, wing knobs and spindle-shaped knobs with a large selection of accessories.

### YOUR ADVANTAGE

Tried and tested collet fixture system. Convenient assembly of knobs from the front, easy adjusting (by means of an adjusting key, see accessory). Tight fitting of knobs on the axis.

Round, wing and spindle-shaped knobs with the same standardised design and with matt surface.

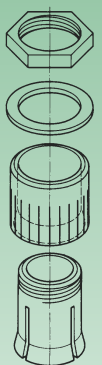
A large variety of functional accessories, e.g. covers in different colours and transparent dials. Easy push-on assembly.

### Sizes (mm)

ø 9, ø 10, ø 13,5, ø 16,  
ø 20, ø 23, ø 31, ø 40, ø 50  
(depends on type)

### Fastening

with collet fixture system  
for rotary potentiometer  
with shaft ends  
corresponding to  
DIN 41591



detailed drawings see our website  
[www.okw.com](http://www.okw.com)



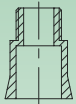
## FUNCTIONAL DESIGN

Sizes 10 and 13 have blind holes and screw fixing. From knob size 23 up through holes ① (sizes 16 + 20 stepped ②, except for axes 4 mm).

①



②



### YOUR ADVANTAGE

Torsion protection for axes 6/4.6 mm available as accessory. Suitable for round and wing knobs sizes  $\varnothing$  20 to 50 mm with 6 mm borehole.

We also produce our COMBINATION KNOBS in special colours, moq reserved. Please advise us of the colour and quantity you require.

### APPLICATIONS

Well-proven for electro-mechanical rotary potentiometers with shaft ends corresponding to DIN 41591, e.g. within the field of measuring, controlling, regulating.





# TUNING KNOBS

Order data on pages 200-203

**OKW**  
GEHÄUSE  
SYSTEME



## LARGE SELECTION OF TYPES



### THE PRODUCT

The TUNING KNOB range covers many different fields of application.

Choose the TUNING KNOB whose size and design meets your own special requirements.

Thanks to the large selection of types, you have the opportunity of giving your appliances their own individual "face".

### YOUR ADVANTAGE

For the varying applications involved we offer a range of tuning knobs in thermo-plastic as well as knobs in thermosetting plastic for high temperature resistance (Duroplast).

Different designs and sizes – practical, with a good grip.

High-grade metal effects thanks to aluminium cap or insert embellisher. The colour and styling of the front panel thus form a unified whole.

Versions with markings – advantageous for adjusting and indicating.

### Fastenings

According to knob type

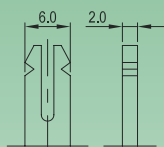
- A) Metal bush, metal ring or square-head nut and cupped point threaded studs with securing recess.
- B) Cupped point threaded studs with securing recess. Thread in plastic jacket (low cost knob version).
- C) Circular spring (tuning knobs with profile boreholes for axes 6/4.6 mm).



## CORRECTLY REGULATED

### Fastening

Suitable for potentiometer axes.



### YOUR ADVANTAGE

OKW SLIDE CONTROL KNOBS are ideal for the use of electro-mechanical components with slide resistors.

Here they offer optimum adjustment options for the user and a particularly attractive appearance.

### YOUR ADVANTAGE

Easy to install – simple push-on fitting.

All versions available with markings.

Ideal for continuous fine tuning.

Practical, with a good grip.





## INDIVIDUAL ENCLOSURE SOLUTIONS

### SYSTEM COMPONENTS

Look at our comprehensive standard range and select the enclosure or tuning knob that matches your ideas, your components and the needs of your customer best.

In the next step you merely have to tell us what you still need for your own very personal product. Together with you we choose the necessary modifications from our wide range of services – ideal in terms of price, quality and delivery time – to meet your specific requirements.

### SPECIAL ENCLOSURES

And what if your requirements go beyond our standard services? No problem. 35 years of experience in the development of cases is waiting to help you realise your own individual solution.

From development to series-type production, we can offer you the solution you need, for any quantity.

Individuality has many faces. Allow us to inspire you on the following pages.

Pages 110-115  
Machining and finishing services as well as special materials and colours

Pages 116-119  
Customer design



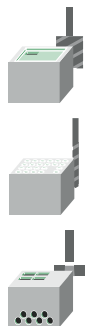
**OKW**  
GEHÄUSE  
SYSTEME







## THE RIGHT RECESSES



### MECHANICAL MACHINING

Individual machining, e.g. cutouts for interfaces, cable entries and outlets as well as cable bushes, displays and operating elements.

State-of-the art machines guarantee high and uniform quality.



milling  
tapping  
drilling  
threading  
punching



3D printing  
optional with finishing, e.g. painting, with aluminium metallization etc.

## FUNCTION CHECK

### RAPID PROTOTYPING



Exact, accurate parts with an outstanding surface finish, e.g. enclosures from our standard range with individual modifications.

To check the integrated components, evaluate the design and in some cases even carry out functional tests.

Materials in different colours and various degrees of elasticity for many different areas of application.



## PROTECTION FROM RFI/EMI

## INDIVIDUAL PRINTING



ALVACOAT® metallization services is a registered trademark of Odenwälder Kunststoffwerke Gehäuse-systeme GmbH.

### EMC

The ALVACOAT® method (250/500/700) is ideally suited to shielding electronic equipment against radiation from outside as well as from increased internal emission noise.

Short production times are possible thanks to numerous holding devices.

Coating with other materials, individual coating thicknesses, conductive seals etc. on request.



aluminium coating  
shielding effect with approx. 2.5 µm thickness: 30-40 dB in the frequency range from 30 to 1,000 MHz



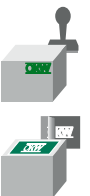
screen printing  
tampo printing  
digital printing

### PRINTING

Depending on the required printed image and type of enclosure / tuning knob, we can offer you silk screen printing, tampo printing and digital printing.

Special features: all-round printing, printing with metallic colours, multi-coloured printing, digital printing directly on the case and printing of foils.

Colour definition in RAL, Pantone, NCS, according to sample or range of dyes. For digital printing CMYK.



**OKW**  
GEHÄUSE  
SYSTEME



## SAFETY IMPROVEMENT



### PROTECTIVE LACQUER

Protective lacquers have proved valuable for special requirements.

ESD lacquer.

Antibacterial lacquer.

Protective lacquer against abrasion.

Special protective lacquer against unwanted marks from fingerprints.



Short preparation and processing times as we have our own mixing unit



lacquering with high-grade, UV-resistant 2-component lacquers  
water transfer printing  
chromed

## GREAT-LOOKING EFFECTS

### FINISHING

Your enclosure and tuning knob in an individual colour and unusual design.

Standard lacquers with different degrees of gloss, from matt to glossy.

Metallic colours.

Soft-Touch coating to improve the "feel" of your product.

Standard finishes and individual designs exclusively according to your own samples.



+ -







## PRINTING IN PHOTO QUALITY

## KEYPAD TO CI STANDARDS



### DIGITAL PRINTING

The digital printing process (photo quality) allows different design versions without big expenses.

Decorative foils or sales packaging can be printed even for just 1 unit for lettering and for adding colour, and products can even be printed directly.

Special features: consecutive numbering, barcodes or price specifications.



digital printing directly on the case also makes a great impression; we can print ABS surfaces with differences in height of up to 2.5 mm



keyboard design without/with metal dome without/with integrated LEDs



### MEMBRANE KEYBOARD

Use our potential for the production of your membrane keyboards as well.

Through our cooperation with powerful partners, we are in a position to offer you a complete range, e.g. for remote controls, machine control systems, medical equipment (disinfected applications), electrical household appliances and peripheral equipment etc.



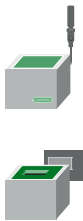
**OKW**  
GEHÄUSE  
SYSTEME



## FULL ASSEMBLY OF THE DEVICE



## HIGH-QUALITY PRESENTATION



### ASSEMBLY

We will carry out mounting and assembling to complete your device e.g. mounting of cable glands and display windows, supply and mounting of threaded bushes or bolts, conductive gaskets, pocket belt, battery clips, membrane keyboards or decorative foils.

Of course, you can also provide us with your own components or keyboards for the assembly process.



if required we can support you in the development of the parts and components, and will help you plan suitable installation



adhesive label  
banderole

### SALES WRAPPING

Present your product in a high-quality sales wrapping!

On demand we create and print your individual sales wrapping or adhesive label in according to your corporate design rules.





## COLOURS / PROPERTIES

## SUBSTAINABILITY



### SPECIAL PRODUCTION

In case of special properties of the parts like chemical resistance, flame-resistance or colouring, we also manufacture the cases in different materials and colours – from 1 piece!



The online product catalogue shows the appropriate symbols for the possible special material options on the product pages.



individual colouring

flame-resistant materials

antimicrobial material – permanent protection against bacteria, viruses and fungi



BIO plastic, CO<sub>2</sub>-neutral

The OKW-SOFT-CASE made in BIOGRADE® is already available from stock!

### BIO PLASTIC



BIOGRADE® has similar properties to ABS and can be processed using the normal injection moulding method. In many applications BIOGRADE® can replace the fossil plastics used up to now.

For indoors applications there are no restrictions to the life cycle.

Show that you are responsible and environmentally aware with a enclosure made of BIOGRADE®.

**OKW**  
GEHÄUSE  
SYSTEME



Milled parts ③ and printing



Combination of standard base and prototype ①



Milled parts of aluminium/plastic ③



Covers with coating ④

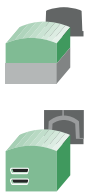


New top part and optical fibres ⑥



Special designs in accordance with standard housing design ⑦

## YOUR IDEAS AND VISIONS REALISED BY US



### TAILOR-MADE INDIVIDUALITY

We are pleased to pass on to you our years of experience in the development and manufacture of plastic cases, for all the requirements to be met by a case which cannot always be implemented in one standard product. You should therefore make use of our potential for your individual case.

### TAILORED SOLUTIONS

Through the combination with standard parts, you benefit from the attractive relationship between investment and use.

From development to series-type production, we can offer you the solution you need, for any quantity.

### Milling and bending technology

The bending process also takes account into the thermo-elastic properties of the plastics. The plastic plates are first milled and then bent into the required shape.

### Milling technology

Milled parts are produced from panels or block material (aluminium, plastic or wood) using CNC technology. The combination of different materials is of particular interest.





Tool insert customer design ⑥



Customer-specific top/bottom parts ⑥



Additional illumination plate ⑥



STL prototype ① and part ⑦ with double injection technique



Customer design ⑦



Top and bottom part made of wood ③



Customer design ⑧



Customer design ⑧

## COMPREHENSIVE TECHNOLOGY PORTFOLIO

### Tool inserts in basic moulds for customer designs

Here, changeable inserts made of aluminium or steel are mounted in the existing basic OKW moulds for the case form that is to be created. Thanks to a cooling system which is integrated in the basic mould body, the cases can be produced at short notice and on reasonable terms.

TECHNOLOGIES	POSSIBLE TOTAL PRODUCTION
① Prototyping	Single units, design samples
② Vacuum casting	For pilot series and small series
③ Milling and bending technology and milling technology	Series up to 200 units
④ Thermoforming – deep drawing technology	Series up to 1,000 units
⑤ Tool inserts for standard cases	Series up to 10,000 units
⑥ Tool inserts in basic moulds for customer designs	Series from 15,000 to 50,000 units
⑦ Small series tools	Series from 1 to 25,000 units
⑧ Complete tools	Series from 50,000 to 250,000 units & more





Customer design ⑦



Protective case ④



STL prototype top part ①



Prototype intermediate ring ①

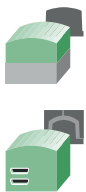


Customer design ⑦



STL prototype ① and part ⑤

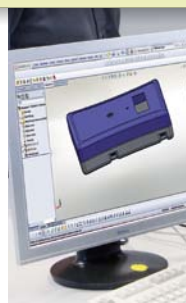
## CONCEPT & DEVELOPMENT



### PROJECT PHASE 1

On the basis of your requirements profile, we can work out a conceptual solution to meet your product requirements.

Whether it is a question of product concept, material specifications, optimum tooling design, high quality surface finish etc., we have the technical competence for complete solution.



individual  
consulting and  
development



from the idea to  
the first model

## PROTOTYPING

### PROJECT PHASE 2

Before implementing an individual case solution, we offer you the opportunity to create a prototype.

On the basis of the prototype, you can check integrated components, evaluate the design and in some cases even carry out functional tests.



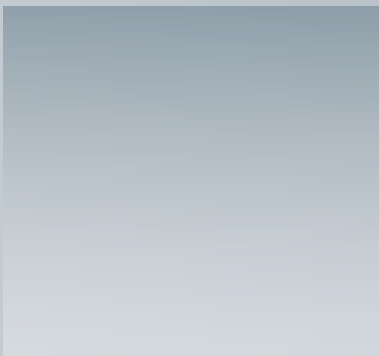
Tool insert customer design ④



Milled parts of aluminium/plastic ③



Customer-specific bottom part ⑥



Metal plate with TPE-plastic casing ⑦



Customer design ⑥

## IMPLEMENTATION

## SERIES-TYPE PRODUCTION

### PROJECT PHASE 3

After the design has been approved, we implement the concept by creating the moulds, tool inserts and equipment.

Cost-effective solutions to meet your needs, for example the creation of interchangeable inserts in OKW's own standard moulds, reduce your investment to the minimum.



execution of the work through trained staff with the required knowledge



made in Germany guarantees a high level of quality awareness and fast reactions

### PROJECT PHASE 4

For the series-type production of your individual enclosure / tuning knob solution, modern machine facilities are available.

Besides straight injection moulding production, we can also finish your individual product in our Service Centre.



## MINITEC DROP

Bottom and top part	Size	Outside dim. in mm			Equipment (dim. in mm) max. dim. keypad	Part-No. ABS (UL 94 HB)		PMMA* <sup>2</sup> black RAL 9005
		L	W	H		off-white RAL 9002	lava	
	S	51	32	13	38.60 x 18.15	B 90 02 907	B 90 02 908	B 90 02 906
	M	70	44	16	52.55 x 23.70	B 90 04 907	B 90 04 908	B 90 04 906
	L	84	53	19	63.95 x 30.10	B 90 06 907	B 90 06 908	B 90 06 906

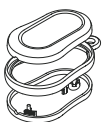
Intermediate ring	Material	Colour	Part-No.			
			S	M	L	S
	TPE	lava	B 90 02 302	B 90 04 302	B 90 06 302	B 90 02 352
	TPE	orange	B 90 02 303	B 90 04 303	B 90 06 303	B 90 02 353
	TPE	green	B 90 02 304	B 90 04 304	B 90 06 304	B 90 02 354
	TPE	blue	B 90 02 305	B 90 04 305	B 90 06 305	B 90 02 355
	PMMA* <sup>2</sup>	black, RAL 9005	B 90 02 306	B 90 04 306	B 90 06 306	B 90 02 356
	TPE	off-white, RAL 9002	B 90 02 307	B 90 04 307	B 90 06 307	B 90 02 357
	TPE	volcano	B 90 02 308	B 90 04 308	B 90 06 308	B 90 02 358
	ABS	black, RAL 9005	B 90 02 309	B 90 04 309	B 90 06 309	B 90 02 359

## MINITEC EDGE

Bottom and top part	Size	Outside dim. in mm			Equipment (dim. in mm) max. dim. keypad	Part-No. ABS (UL 94 HB)		PMMA* <sup>2</sup> black RAL 9005
		L	W	H		off-white RAL 9002	lava	
	S	52	32	15	34.90 x 19.85	B 90 02 807	B 90 02 808	B 90 02 806
		without recess		B 90 02 857	B 90 02 858	B 90 02 856		
	M	68	42	18/24	45.00 x 27.85	B 90 04 807	B 90 04 808	B 90 04 806
		without recess		B 90 04 857	B 90 04 858	B 90 04 856		
	L	78	48	20	51.60 x 31.95	B 90 06 807	B 90 06 808	B 90 06 806
		without recess		B 90 06 857	B 90 06 858	B 90 06 856		
		78	48	24	51.50 x 29.70	B 90 06 817	B 90 06 818	B 90 06 816
		78	48	26	51.50 x 29.70	B 90 06 827	B 90 06 828	B 90 06 826

Intermediate ring	Material	Colour	Part-No.			Part-No.			NEW
			S	M	L	S	M	L	
	TPE	lava	B 90 02 702	B 90 04 702	B 90 06 702	B 90 02 752	B 90 04 752	B 90 06 752	B 90 06 782
	TPE	orange	B 90 02 703	B 90 04 703	B 90 06 703	B 90 02 753	B 90 04 753	B 90 06 753	B 90 06 783
	TPE	green	B 90 02 704	B 90 04 704	B 90 06 704	B 90 02 754	B 90 04 754	B 90 06 754	B 90 06 784
	TPE	blue	B 90 02 705	B 90 04 705	B 90 06 705	B 90 02 755	B 90 04 755	B 90 06 755	B 90 06 785
	PMMA* <sup>2</sup>	black	B 90 02 706	B 90 04 706	B 90 06 706	B 90 02 756	B 90 04 756	B 90 06 756	B 90 06 786
	TPE	off-white	B 90 02 707	B 90 04 707	B 90 06 707	B 90 02 757	B 90 04 757	B 90 06 757	B 90 06 787
	TPE	volcano	B 90 02 708	B 90 04 708	B 90 06 708	B 90 02 758	B 90 04 758	B 90 06 758	B 90 06 788
	ABS	black	B 90 02 709	B 90 04 709	B 90 06 709	B 90 02 759	B 90 04 759	B 90 06 759	B 90 06 789

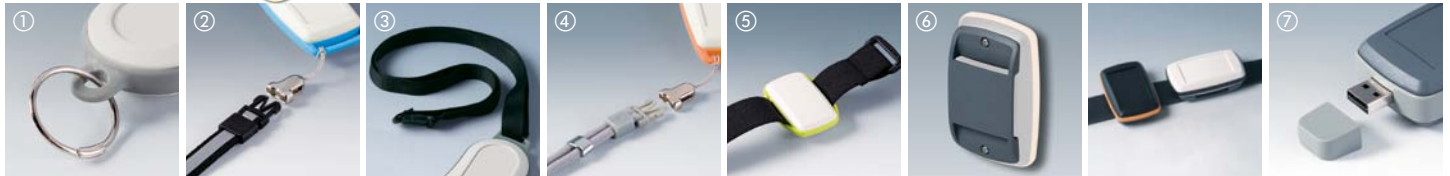
Intermediate ring high	Material	Colour	Part-No.		NEW
			M	USB Type A	
	TPE	lava	B 90 04 782	—	—
	TPE	orange	B 90 04 783	—	—
	TPE	green	B 90 04 784	—	—
	TPE	blue	B 90 04 785	—	—
	TPE	off-white, RAL 9002	B 90 04 787	—	—
	TPE	volcano	B 90 04 788	B 90 04 798	—



\*1 To achieve one MINITEC, please order:  
 1 bottom and top part  
 1 intermediate ring  
 (screw supplied with case)

## MINITEC ACCESSORIES




Article	For MINITEC	Version / Application	Part-No.
① Key ring	E (Edge) / D (Drop)	nickel-plated, ø 20.5 mm	A 91 64 001
② Lanyard "Reflex"	E (Edge) / D (Drop)	silver/black, with quick-action lock, approx. 860 mm long	B 91 00 022
③ Lanyard "Woven" <b>NEW</b>	E (Edge) / D (Drop)	black, with safety closure, approx. 900 mm long	B 91 00 053
④ Hand strap "Woven"	E (Edge) / D (Drop)	grey, with quick-action lock, approx. 200 mm long	B 91 00 044
⑤ Wrist strap	E (Edge, 2 strap loops)	black, elastic belt with velcro, approx. 280 mm long	B 91 00 033
⑥ Strap eyelet <b>NEW</b>	E (Edge size L)	ABS lava, for belts or belt webbing up to 34 x 4 mm, horizontally/vertically use, incl. screws for mounting	B 91 06 108
⑦ USB end cover <b>NEW</b>	E (Edge size M)	TPE, volcano, for USB connectors type A according DIN IEC 61076-3-107, clamps on the connector	A 93 20 008



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## SMART-CASE

SMART-CASE	Outside dim. in mm			Version / Equipment (dim. in mm)			max. dim. keypad	ABS (UL 94 HB)			PMMA plexiglass® black RAL 9005*1	
	L	W	H	battery compartment	cable gland approx. ø	off-white RAL 9002 (cable gland: volcano vers. III-V)		black RAL 9005	black RAL 9005 (gland black)			
	XS	58	35.6	19	–	–	–	–*2	A 90 64 107	A 90 64 109	– <b>NEW</b>	A 90 64 209
		96	47	24	I	2 x AAA	–	–*2	A 90 66 107	A 90 66 109	–	A 90 66 209
	M	96	47	24	II	2 x AAA	–	–*2	A 90 66 117	A 90 66 119	–	A 90 66 219
		96	47	24	III	–	5.0 - 5.9	74.60 x 39.85	A 90 66 127	A 90 66 129	A 90 66 329	–
		96	47	24	IV	–	4.2 - 5.0		A 90 66 137	A 90 66 139	A 90 66 339	–
		96	47	24	V	–	3.4 - 4.2		A 90 66 147	A 90 66 149	A 90 66 349	–
		96	47	24	VI	–	–		A 90 66 317	A 90 66 319	–	A 90 66 419
		140	62.7	30.5	I	2 x AA / 1 x 9 V	–		103.95 x 50.95	A 90 67 107	A 90 67 109	–
140	62.7	30.5	II	–	–	A 90 67 117	A 90 67 119	–		A 90 67 219		
140	62.7	30.5	III	–	5.0 - 5.9	A 90 67 127	A 90 67 129	A 90 67 329		–		
140	62.7	30.5	IV	–	4.2 - 5.0	A 90 67 137	A 90 67 139	A 90 67 339		–		
140	62.7	30.5	V	–	3.4 - 4.2	A 90 67 147	A 90 67 149	A 90 67 349		–		
	XL	168	74.4	35.4	I	2 x AA / 1 x 9 V	–	110.60 x 61.05	A 90 68 107	A 90 68 109	–	A 90 68 209
		168	74.4	35.4	II	–	–		A 90 68 117	A 90 68 119	–	A 90 68 219
		168	74.4	35.4	III	–	5.0 - 5.9		A 90 68 127	A 90 68 129	A 90 68 329	–
		168	74.4	35.4	IV	–	4.2 - 5.0		A 90 68 137	A 90 68 139	A 90 68 339	–
		168	74.4	35.4	V	–	3.4 - 4.2		A 90 68 147	A 90 68 149	A 90 68 349	–

\*1 sizes L & XL only the bottom parts made of PMMA, top part is made of ABS (UL 94 HB); cases made of PMMA plexiglass® not comparable to cases made of ABS when comparing mechanical load-bearing capacity

\*2 without recessed area

## SMART-CASE ACCESSORIES




Article	For SMART-CASE	Version / Application	Part-No.	
			off-white	black
① Set of battery clips	M	tin-plated, for 2 x 1.5 V micro cells (AAA)	A 91 66 001	
	L, XL	tin-plated, for 2 x 1.5 V mignon cells (AA)	A 91 90 002	
② Battery contact	M	tin-plated, for a serial connection when using the set of batt. clips (AAA)	A 91 66 002	
③ Battery holder	M	clamps down securely 2 x AAA	A 91 66 003	
④ Plug-in contact	L, XL	for one 9 V flat battery	A 91 60 003	
⑤ Sealing	L	for versions II-V, for a higher protection class (IP 65)	A 91 67 002	
	XL	for versions II-V, for a higher protection class (IP 65)	A 91 68 002	
⑥ Set of strain relief	M, L, XL & station	for strain relief of cable connected applications	A 91 66 004	
⑦ Key ring	XS	nickel-plated, ø 20.5 mm	A 91 64 001	
⑧ Belt /pocket clip	M, L, XL	PA 6, 2 mounting holes ø 4.2 mm necessary	A 91 67 017	A 91 67 019
⑨ Holding clamp	M, L, XL	up to ø 32 mm, ABS, 2 mounting holes ø 4.2 mm necessary	A 91 67 027	A 91 67 029
⑩ Holder	M	ABS, also suitable for cable connected applications	A 91 66 307	A 91 66 309
	L	ABS, also suitable for cable connected applications	A 91 67 307	A 91 67 309
	XL	ABS, also suitable for cable connected applications	A 91 68 307	A 91 68 309
	holder M	double-sided adhesive foil with foam carrier	A 91 66 005	
⑪ Adhesive foil for holder	holder L	double-sided adhesive foil with foam carrier	A 91 67 005	
	holder XL	double-sided adhesive foil with foam carrier	A 91 68 005	
	⑫ Holder with adapter (4-claws system)* <sup>2</sup>	M	ABS, also suitable for cable connected applications, adapter in black	A 91 66 327
L		ABS, also suitable for cable connected applications, adapter in black	A 91 67 327	A 91 67 329
XL		ABS, also suitable for cable connected applications, adapter in black	A 91 68 327	A 91 68 329
⑬ Station	M	ABS, desk case application	A 91 66 037	A 91 66 039
	L	ABS, desk case application	A 91 67 037	A 91 67 039
	XL	ABS, desk case application	A 91 68 037	A 91 68 039
⑭ Contacts (bore holes necessary)	M, L, XL	contact pin, gold-plated, < 15 A	A 91 93 030	
	M, L, XL	spring contact, gold-plated, load-carrying cap. up to 3 A, 1.5 mm stroke, 0.3 N	A 91 93 032	
⑮ Ring eyelet	M, L	plastic, volcano, inside ring ø 2.5 mm, location hole ø 4 mm required	A 91 00 001	
	XL	plastic, volcano, inside ring ø 4 mm, location hole ø 5 mm required	A 91 00 002	



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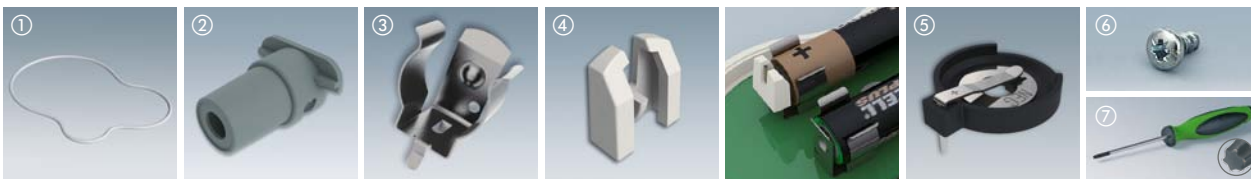
\*<sup>2</sup> for attaching to holding devices; with 4-hole grid pattern to match the grid plates of the holding devices with the 4-claws system A9220029, A9220039, A9220049 and A9220059 (separate article see page 179)

## BLOB

BLOB	Outside dim. in mm L W H	Equipment (dim. in mm) max. dim. keypad	Material	Part-No.	
				off-white RAL 9002	lava
 BLOB UNIT	130 60 30	80.2 x 49.2	ABS (UL 94 HB)	B 25 10 107	B 25 10 108
 BLOB CONTROL	114 76 31	ø 63	ABS (UL 94 HB)	B 25 12 107	B 25 12 108
 BLOB PANEL	200 165 36	ø 120.5 minus ø 15.5	ABS (UL 94 HB)	B 25 14 107	B 25 14 108

## BLOB ACCESSORIES

Article	Version / Application	Part No.
① Sealing	Unit, sealed up to IP 54	B 26 10 001
	Control, sealed up to IP 54	B 26 12 001
	Panel, sealed up to IP 54	B 26 14 001
② Cable gland*1	for cable ø 5.0 - 5.9 mm, elastomer, volcano	B 26 10 101
	for cable ø 4.2 - 5.0 mm, elastomer, volcano	B 26 10 111
	for cable ø 3.4 - 4.2 mm, elastomer, volcano	B 26 10 121
③ Battery Clip	for AA round cells, for mounting on PCBs, nickel-plated spring steel, 1 piece (2 pcs. required per round cell)	A 91 93 035
	for AAA round cells, for mounting on PCBs, nickel-plated spring steel, 1 piece (2 pcs. required per round cell)	A 91 93 036
④ Polarity reversal protection '+' (for use with battery clips)	for AA round cells, prevents contact if batteries are inserted incorrectly, ABS, off-white, 1 pc required per round cell	A 91 93 033
	for AAA round cells, prevents contact if batteries are inserted incorrectly, ABS, off-white, 1 pc required per round cell	A 91 93 034
⑤ Button cell holder	for button cells ø 20 mm, e.g. CR2016, CR2025, CR2032, horizontal, for mounting on PCBs	A 91 93 037
	for button cells ø 23 mm, e.g. CR2320, CR2325, CR2354, horizontal, for mounting on PCBs	A 91 93 038
	for button cells ø 12 mm, e.g. CR1216, CR1220, horizontal, for mounting on PCBs	A 91 93 039
	for button cells ø 16 mm, e.g. CR1612, CR1620, horizontal, for mounting on PCBs	A 91 93 040
⑥ Self-tapping screw	ø 2.5 x 6 mm (PZ1), for mounting PCBs, 1 pc	A 03 05 031
⑦ Torx screwdriver T10	Torx 10, with ergonomic handle, for assembling enclosure	A 03 99 T10




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\*1 cylindrical hole required; can be placed anywhere on the circumference of the enclosure;  
use of cable gland and sealing (separate article) possible



## SOFT-CASE

SOFT-CASE		Outside dim. in mm			Version / Equipment (dim. in mm)		ABS (UL 94 HB)		PMMA plexiglass® black RAL 9005*2	BIOGRADE® off-white RAL 9002
		L	W	H	battery compartment	max. dim. keypad	off-white RAL 9002	lava		
	S*1	51	82	14	–	36.1 x 54.6	A 90 50 107	A 90 50 108	A 90 50 209	A 90 50 307
	M	65	105	19	–	46,7 x 70,3	A 90 51 107	A 90 51 108	A 90 51 209	A 90 51 307
		65	105	19	2 x AAA	46.7 x 70.3	A 90 51 117	A 90 51 118	A 90 51 219	A 90 51 317
		73	117	24	–	51.5 x 77.5	A 90 52 107	A 90 52 108	A 90 52 209	A 90 52 307
	L	73	117	24	2 x AA	51.5 x 77.5	A 90 52 117	A 90 52 118	A 90 52 219	A 90 52 317
		73	117	24	1 x 9 V (PP3)	51.5 x 77.5	A 90 52 127	A 90 52 128	A 90 52 229	A 90 52 327
		92	150	28	–	67.15 x 101.05	A 90 53 107	A 90 53 108	A 90 53 209	A 90 53 307
	XL	92	150	28	4 x AA	67.15 x 101.05	A 90 53 117	A 90 53 118	A 90 53 219	A 90 53 317



## SOFT-CASE ACCESSORIES

Article	Version / Application	Part-No.			
		S	M	L	XL
① Intermediate ring / Intermediate protection ring (TPE only)	ABS, off-white RAL 9002, for 2 (S) / 3 (M, L) / 5 mm (XL) more installation height	A 91 50 017	A 91 51 017	A 91 52 017	A 91 53 017
	ABS, lava, for 2 (S) / 3 (M, L) / 5 mm (XL) more installation height	A 91 50 018	A 91 51 018	A 91 52 018	A 91 53 018
	ABS, matt chromed*3, for 2 (S) / 3 (M, L) / 5 mm (XL) more installation height	A 91 50 011	A 91 51 011	A 91 52 011	A 91 53 011
	PMMA (plexiglass®), black, for 2 (S) / 3 (M, L) / 5 mm (XL) more installation height	A 91 50 219	A 91 51 219	A 91 52 219	A 91 53 219
	TPE, volcano, for 2 (S) / 3 (M, L) / 5 mm (XL) more installation height	A 91 50 118	A 91 51 118	A 91 52 118	A 91 53 118
	BIOGRADE®, off-white RAL 9002, for 2 (S) / 3 (M, L) / 5 mm (XL) more instal. height	A 91 50 317	A 91 51 317	A 91 52 317	A 91 53 317
② Set of battery clips	nickel-plated, for 2 x 1.5 V micro cells (AAA)	–	A 91 51 010	–	–
	nickel-plated, for 2 bzw. 4 x 1.5 V mignon cells (AA)	–	–	A 91 52 010	A 91 52 010
	tin-plated, for 1 x 9 V flat battery (PP3)	–	–	A 91 74 006	–
			off-white	lava	black
③ Combi-Clip*4	ABS, serves as a clip and/or wall suspension, suitable for S, M, L & XL, 1 set		A 91 52 047	A 91 52 048	A 91 52 049
④ Tilt foot bar	ABS, 2 mounting holes ø 4.2 mm necessary, suitable for S, M, L & XL, 1 set		A 91 52 057	A 91 52 058	A 91 52 059
⑤ Ring eyelet	S/M/L	plastic, volcano, inside ring ø 2.5 mm, max. wall thickness 3 mm, location hole ø 4 mm required			A 91 00 001
	XL	plastic, volcano, inside ring ø 4 mm, max. wall thickness 4 mm, location hole ø 5 mm required			A 91 00 002



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\*1 recommended tightening torques for ABS versions without intermediate ring max. 40 Ncm / with intermediate ring 35 Ncm

\*2 cases made of PMMA (plexiglass®) not comparable to cases made of ABS when comparing mechanical load-bearing capacity




\*3 during assembly ensure that the surface is conductive

\*4 two mounting holes ø 4.2 mm necessary, assembly oriented towards the length or width (size S towards the length only), when replacing batteries, the clip can be easily removed



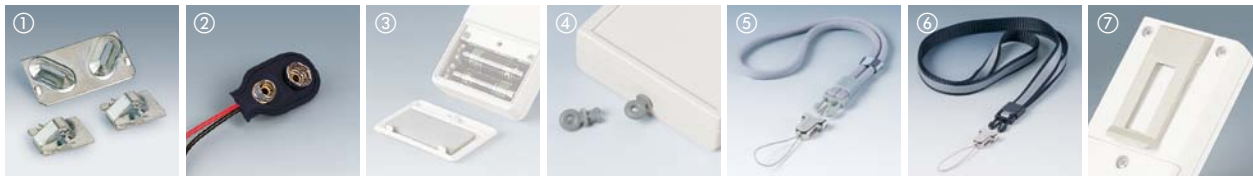
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## DATEC-POCKET-BOX

DATEC-POCKET-BOX	Outside dim. in mm			Version / Equipment (dim. in mm)				Material base part/top part	Part-No.		
	L	W	H	battery compartment	lid of battery compartment	max. dim. keypad	sealing		off-white RAL 9002	black RAL 9005	
	S	85	46	16	2 x N	–	57.90 x 39.90	–	ABS (UL 94 HB)	A 90 70 107	A 90 70 109
		85	46	16	2 x N	–	57.90 x 39.90	• (IP 54)	ABS (UL 94 HB)	A 90 70 117	A 90 70 119
		85	46	16	2 x N	–	57.90 x 39.90	–	PMMA (plexiglass®)*1	–	A 90 70 209
		85	46	16	2 x N	–	57.90 x 39.90	• (IP 54)	PMMA (plexiglass®)*1	–	A 90 70 219
	M	105	58	18.5	2 x AAA	screwed down	71.95 x 49.95	–	ABS (UL 94 HB)	A 90 71 107	A 90 71 109
		105	58	18.5	2 x AAA	screwed down	71.95 x 49.95	• (IP 54)	ABS (UL 94 HB)	A 90 71 117	A 90 71 119
		105	58	18.5	2 x AAA	screwed down	71.95 x 49.95	–	PMMA (plexiglass®)*1/ABS	–	A 90 71 209
		105	58	18.5	2 x AAA	screwed down	71.95 x 49.95	• (IP 54)	PMMA (plexiglass®)*1/ABS	–	A 90 71 219
	L	120	65	22	2 x AA/1 x 9 V	screwed down	79.70 x 54.80	–	ABS (UL 94 HB)	A 90 72 107	A 90 72 109
		120	65	22	2 x AA/1 x 9 V	screwed down	79.70 x 54.80	• (IP 54)	ABS (UL 94 HB)	A 90 72 117	A 90 72 119
		120	65	22	2 x AA/1 x 9 V	clip-lock	79.70 x 54.80	–	ABS (UL 94 HB)	A 90 72 127	A 90 72 129
		120	65	22	2 x AA/1 x 9 V	screwed down	79.70 x 54.80	–	PMMA (plexiglass®)*1/ABS	–	A 90 72 209
		120	65	22	2 x AA/1 x 9 V	screwed down	79.70 x 54.80	• (IP 54)	PMMA (plexiglass®)*1/ABS	–	A 90 72 219
		120	65	22	2 x AA/1 x 9 V	clip-lock	79.70 x 54.80	–	PMMA (plexiglass®)*1/ABS	–	A 90 72 229

## DATEC-POCKET-BOX ACCESSORIES

Article	For DATEC-POCKET-BOX	Version / Application	Part-No.	
① Set of battery clips	S, M, L	tin-plated, for 2 x N / 2 x AAA / 2 x AA	A 91 90 002	
② Plug-in contact	L	for one 9 V flat battery (PP3)	A 91 60 003	
③ Battery spacer	L	PE foam with adhesive coating, to secure the mignon cells (AA)	A 92 50 250	
④ Ring eyelet	S, M, L	plastic, volcano, inside ring $\varnothing$ 2.5 mm, max. wall thickness 3 mm, location hole $\varnothing$ 4 mm required	A 91 00 001	
⑤ Hand strap "Woven"	S, M, L	grey, with quick-action lock, approx. 200 mm long	B 91 00 044	
⑥ Lanyard "Reflex"	S, M, L	silver/black, with quick-action lock, approx. 860 mm long	B 91 00 022	
			off-white	black
⑦ Belt / pocket clip	S, M, L	ABS, 2 mounting holes $\varnothing$ 4.2 mm necessary	A 91 72 107	A 91 72 109



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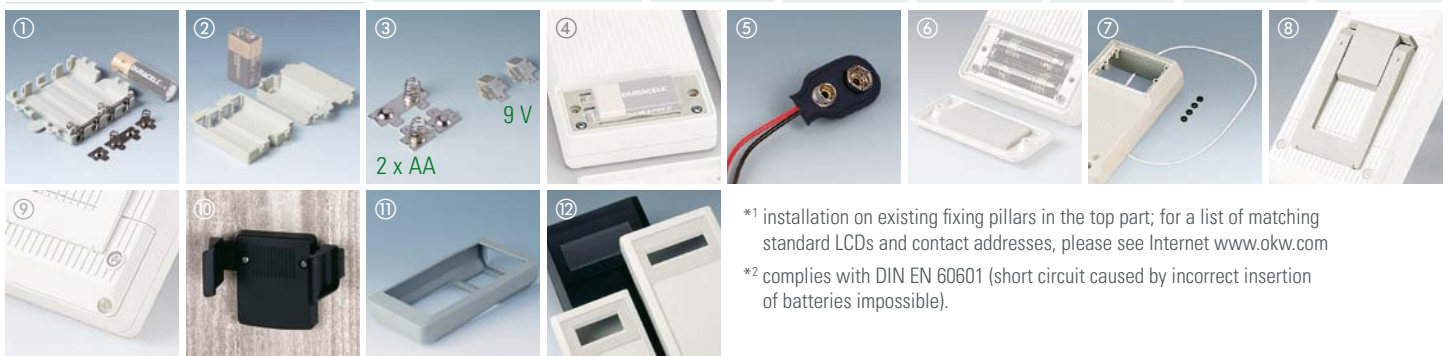
\*1 cases made of PMMA plexiglass® not comparable to cases made of ABS when comparing mechanical load-bearing capacity

## DATEC-MOBIL-BOX

DATEC-MOBIL-BOX	Outside dim. in mm			Version / Equipment (dim. in mm)			Material	Part-No.		
	L	W	H	battery compartment	for LCD type*1	max. dim. keypad		off-white RAL 9002	black RAL 9005	
	S	152	83	33,5	I 2 x AA/1 x 9 V	(no window)	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 107	A 90 73 109
		152	83	33,5	II 2 x AA/1 x 9 V	2"-LC-Glass Mod.	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 207	A 90 73 209
		152	83	33,5	III 2 x AA/1 x 9 V	2 x 20 miniature	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 307	A 90 73 309
		152	83	33,5	IV 2 x AA/1 x 9 V	4 x 20 miniature	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 407	A 90 73 409
		152	83	33,5	I –	(no window)	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 117	A 90 73 119
		152	83	33,5	II –	2"-LC-Glass Mod.	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 217	A 90 73 219
		152	83	33,5	III –	2 x 20 miniature	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 317	A 90 73 319
		152	83	33,5	IV –	4 x 20 miniature	129.00 x 67.70	ABS (UL 94 HB)	A 90 73 417	A 90 73 419
	M	195	101	44	I • (see acc.)	(no window)	167.70 x 80.70	ABS (UL 94 HB)	A 90 74 107	A 90 74 109
		195	101	59	I • (see acc.)	(no window)	167.70 x 80.70	ABS (UL 94 HB)	A 90 74 127	A 90 74 129
		195	101	44	II • (see acc.)	2 x 16 standard	167.70 x 80.70	ABS (UL 94 HB)	A 90 74 207	A 90 74 209
		195	101	59	II • (see acc.)	2 x 16 standard	167.70 x 80.70	ABS (UL 94 HB)	A 90 74 227	A 90 74 229
		195	101	44	III • (see acc.)	2 x 16 compact	167.70 x 80.70	ABS (UL 94 HB)	A 90 74 307	A 90 74 309
	L	252	121	50	I 4 x AA/1 x 9 V	(no window)	218.70 x 100.70	ABS (UL 94 HB)	A 90 75 107	A 90 75 109
		252	121	50	II 4 x AA/1 x 9 V	4 x 20	218.70 x 100.70	ABS (UL 94 HB)	A 90 75 207	A 90 75 209
		252	121	50	I –	(no window)	218.70 x 100.70	ABS (UL 94 HB)	A 90 75 117	A 90 75 119
		252	121	50	II –	4 x 20	218.70 x 100.70	ABS (UL 94 HB)	A 90 75 217	A 90 75 219

## DATEC-MOBIL-BOX ACCESSORIES


Article	Version / Application	Part-No.		
		S	M	L
① Set of battery compartment	ABS, off-white, for 4 x 1.5 V mignon cells (AA), battery clips nickel-plated*2	–	A 93 45 217	–
② Battery compartment	ABS, off-white, for 1 x 9 V flat battery (PP3)	–	A 91 74 003	–
	ABS, off-white, for 2 x 9 V flat battery (PP3)	–	A 91 74 002	–
③ Set of battery clips	nickel-plated, for 2 x 1.5 V mignon cells (AA)	A 91 90 011	–	–
	nickel-plated, for 4 x 1.5 V mignon cells (AA)*2	–	–	A 91 90 012
	tin-plated, for 1 x 9 V flat battery (PP3)	–	A 91 74 006	–
	tin-plated, for 2 x 9 V flat battery (PP3)	–	A 91 61 002	–
④ 9 V contact kit	for 1 x 9 V flat battery (PP3), provides polarity and torsion protection	A 91 73 010	–	–
⑤ Plug-in contact	for 1 x 9 V flat battery (PP3)	A 91 60 003	A 91 60 003	A 91 60 003
⑥ Battery spacer	PE foam with one-sided adhesive coating, to secure the mignon cells (AA)	A 92 50 250	–	–
⑦ Sealing kit	for sealing up to IP 65	A 91 73 001	A 91 74 001	A 91 75 001
⑧ Tilt foot bar	off-white, 2 mounting holes ø 4.2 mm necessary	A 92 50 907	A 92 50 907	–
	black, 2 mounting holes ø 4.2 mm necessary	A 92 50 909	A 92 50 909	–
⑨ Non-slip pads	clear, self-adhesive, for the enclosure with tilt foot bar application	A 92 07 150	A 92 07 150	–
⑩ Wall suspension element (exception size M, 59 mm height)	ABS, off-white, for secure storage of the case	A 92 26 237	A 92 26 227	A 92 26 127
	ABS, black, for secure storage of the case	A 92 26 239	A 92 26 229	A 92 26 129
⑪ Protector	Elastomer, volcano, absorbs impacts and for surface protection	–	–	A 91 75 108
⑫ Display window (Acrylic glass, set with adhesive foil for protection for protection class IP 65)	S border off-white	A 91 73 007	–	–
	S border black	A 91 73 009	–	–
	M border off-white	–	A 91 74 307	A 91 74 007
	M border black	–	A 91 74 309	A 91 74 009
	L border off-white	–	–	–
	L border black	–	–	–




\*1 installation on existing fixing pillars in the top part; for a list of matching standard LCDs and contact addresses, please see Internet [www.okw.com](http://www.okw.com)  
\*2 complies with DIN EN 60601 (short circuit caused by incorrect insertion of batteries impossible).



## DATEC-CONTROL XS, S

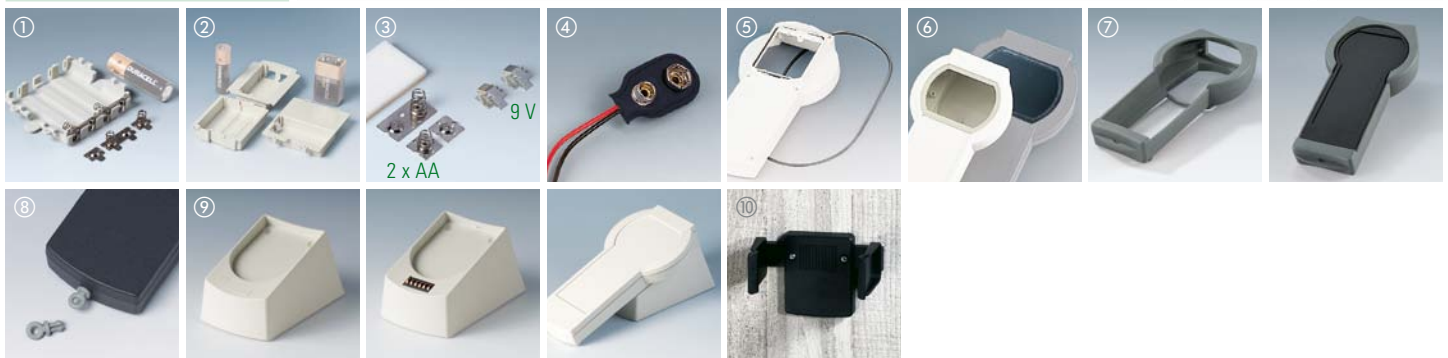
DATEC-CONTROL	Outside dim. in mm			Version / Equipment (dim. in mm)		Material	Part-No.		
	L	W/W <sub>2</sub>	H	battery compartment	display cutout W x L		off-white RAL 9002	black RAL 9005	
	XS	200	58/94	39.5	I • (see accessories)	–	ABS (UL 94 HB)	A 90 76 107	A 90 76 109
		200	58/94	39.5	II • (see accessories)	46 / R32.5 x 45*1	ABS (UL 94 HB)	A 90 76 207	A 90 76 209
	S	228	72/117	47	I • (see accessories)	–	ABS (UL 94 HB)	A 90 77 107	A 90 77 109
		228	72/117	47	II • (see accessories)	56 / R39.5 x 54*1	ABS (UL 94 HB)	A 90 77 207	A 90 77 209

## DATEC-CONTROL XS, S – ENCLOSURE SET –

DATEC-CONTROL	Equipment / Supply	Part No.		
		off-white RAL 9002	black RAL 9005	
	XS	1 case version I with machining*5, 1 station, 1 male contact (station), 1 female contact (case)	A 90 76 157	A 90 76 159
		1 case version I with machining*5, 1 station, 1 male contact (station), 1 female contact (case)	A 90 76 257	A 90 76 259
	S	1 case version I with machining*5, 1 station, 1 male contact (station), 1 female contact (case)	A 90 77 157	A 90 77 159
		1 case version I with machining*5, 1 station, 1 male contact (station), 1 female contact (case)	A 90 77 257	A 90 77 259

## DATEC-CONTROL ACCESSORIES

Artikel	For DATEC-CONTROL	Version / Application	Part-No.	
① Set of battery compartment	S	ABS, for 4 x 1.5 V mignon cells (AA), battery clips nickel-plated*8	A 93 45 217	
② Battery compartment	XS	ABS, for 2 x 1.5 V mignon cells (AA) or 1 x 9 V flat battery (PP3)	A 91 76 128	
	XS	ABS, for 3 x 1.5 V mignon cells (AA) in accordance with IEC LR6 standard!	A 91 76 158	
	S	ABS, for 1 x 9 V flat battery (PP3)	A 91 77 310	
	S	ABS, for 1 x 9 V flat battery (PP3)	A 91 77 310	
③ Set of battery clips	XS	nickel-plated, for 2 x 1.5 V mignon cells (AA)	A 91 76 007	
	XS	nickel-plated, for 3 x 1.5 V mignon cells (AA)	A 91 76 008	
	S	for 1 x 9 V flat battery (PP3)	A 91 74 006	
	S	for 1 x 9 V flat battery (PP3)	A 91 74 006	
④ Plug-in contact	XS, S	for 1 x 9 V flat battery (PP3)	A 91 60 003	
⑤ Sealing kit	XS	for sealing up to IP 65	A 91 76 006	
	S	for sealing up to IP 65	A 91 77 006	
⑥ Display window	XS	acrylic glass, transparent, without printing, as a set with adhesive foil	A 91 76 001	
	S	acrylic glass, transparent, without printing, as a set with adhesive foil	A 91 77 001	
⑦ Protector	XS	Elastomer, volcano, absorbs impacts and for surface protection	A 91 76 108	
	S	Elastomer, volcano, absorbs impacts and for surface protection	A 91 77 008	
⑧ Ring eyelet	XS	plastic, volcano, inside ring ø 4 mm, max. wall thickness 4 mm, location hole ø 5 mm required	A 91 00 002	
⑨ Station*6	XS	ABS, desk case application, for charging electronics etc.	A 91 76 137	A 91 76 139
	S	ABS, desk case application, for charging electronics etc.	A 91 77 137	A 91 77 139
⑩ Wall suspension element	XS	ABS, for secure storage of the cases	A 92 26 337	A 92 26 339
	S	ABS, for secure storage of the cases	A 92 26 227	A 92 26 229



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\*1 installation on existing fixing pillars in the top part or on the PCB; for a list of matching standard LCDs and contact addresses, please see our website: [www.okw.com](http://www.okw.com).


\*2 with individual screen printing, adapted to your visible display cutouts, as well as to cover the area of adhesive foil, on demand

\*5 when using the 6-pin contacts and for reliable contacting

\*6 station may be used with/without contacts. Cover for use without contacts supplied with station, contacts as accessories (page 129)

\*8 complies with DIN EN 60601 (short circuit caused by incorrect insertion of batteries impossible)

## DATEC-CONTROL M, L

DATEC-CONTROL	Outside dim. in mm			Version / Equipment (dim. in mm)		Material	Part-No.			
	L	W/W <sub>2</sub>	H	battery comp.	display cutout W x L		off-white RAL 9002	black RAL 9005		
	M	243	90/130	60	I	• (see acc.)	–	ABS (UL 94 HB)	A 90 78 107	A 90 78 109
		243	90/130	60	II	• (see acc.)	71 / R44 x 51*1	ABS (UL 94 HB)	A 90 78 207	A 90 78 209
	L	266	90/144	60	I	• (see acc.)	–	ABS (UL 94 HB)	A 90 79 107	A 90 79 109
		266	90/144	60	II	• (see acc.)	73 / R49.5 x 66*1	ABS (UL 94 HB)	A 90 79 207	A 90 79 209

## DATEC-CONTROL ACCESSORIES

Article	For DATEC-CONTROL	Version / Application	Part No.	
① Battery compartment*3	M, L	PC, volcano, for 4 x 1.5 V mignon cells (AA)	A 91 78 128	
	M, L	PC, volcano, for 5 x 1.5 V mignon cells (AA)	A 91 78 158	
② Battery compartment holder	M, L	PC, for the mounting of a battery comp. in the station and the case*4	A 91 78 118	
③ End plate for electronic area	M, L	I, to close the electronic area, PC, simple insertion into the guides	A 91 78 178	
	M, L	II, for use with a PCMCIA-card type I, PC, simple insertion into the guides	A 91 78 188	
④ Contacts*7	M, L	III, for use with a PCMCIA-card type I, PC, simple insertion into the guides	A 91 78 198	
	XS, S, M, L	contacts male for the station, 6-pole	A 91 78 007	
⑤ Sealing kit	XS, S, M, L	contacts female for the case, 6-pole	A 91 78 008	
	M	for sealing up to IP 54	A 91 78 006	
⑥ Display window	L	for sealings up to IP 54	A 91 79 006	
	M	acrylic glass, transparent, without printing, as a set with adhesive foil	A 91 78 001	
⑦ Protector (Elastomer, volcano, absorbs impacts and for surface protection)	L	acrylic glass, transparent, without printing, as a set with adhesive foil	A 91 79 001	
	M	without shoulder strap	A 91 78 108	
with shoulder strap approx. 1,800 x 20 mm, black, with push-in buckle		A 91 78 208		
⑧ Station	L	without shoulder strap	A 91 79 108	
	with shoulder strap approx. 1,800 x 20 mm, black, with push-in buckle	A 91 79 208		
⑨ Wall suspension element	M, L	ABS, desktop version, for charging electronics, another battery compartment etc.	A 91 78 137	
	M, L	ABS, wall mounting version, for charging electronics, another batt. comp. etc.	A 91 78 167	
	M, L	ABS, for secure storage of the enclosures	A 92 26 117	
			off-white	black
			A 91 78 139	A 91 78 169
			A 92 26 119	



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\*1 installation on existing fixing pillars in the top part or on the PCB; for a list of matching standard LCDs and contact addresses, please see our website: [www.okw.com](http://www.okw.com)

\*2 with individual screen printing, adapted to your visible display cutout as well as to cover the area of adhesive foil, on demand

\*3 battery compartment holder (②) necessary; the battery compartment snaps into position when it is pushed in

\*4 for mounting the battery compartment holder there are two positions possible (upwards/downwards oriented) – according to the requirements of your components configuration PCBs etc.; with upwards oriented assembly, the end plate for electronic area (③) is required as a support










\*7 for practical use, machining is required for the following parts:

cases DATEC-CONTROL XS, S (area necessary for fitting) as well as DATEC-CONTROL M and L (holes necessary for fitting), station M and L (holes necessary for fitting)





## ERGO-CASE

ERGO-CASE	Outside dim. in mm			Version / Equipment (dim. in mm)		Material base part and top part / intermediate ring	Part-No.				
	L	W	H	Intermediate ring	max. dim. keypad		off-white RAL 9002	black RAL 9005			
 XS 	82	56	24	 volcano	52.00 x 33.10	ABS (UL 94 HB)/TPE	B 70 40 237	B 70 40 239			
	82	56	24	 volcano	52.00 x 33.10	ABS (UL 94 HB)/TPE	B 70 40 217	B 70 40 219			
	82	56	24	 volcano	52.00 x 33.10	ABS (UL 94 HB)/TPE	B 70 40 227	B 70 40 229			
ERGO-CASE	Outside dim. in mm			Combi- nation	Version / Equipment (dim. in mm)		Material	Part-No.			
	L	W	H		battery comp.	lid of batt. comp.		max. dim. keypad	off-white RAL 9002	black RAL 9005	
 S*1	80	96	32	flat	2 x AAA	–	43.80 x 58.20	ABS (UL 94 HB)	B 70 00 107	B 70 00 109	
	80	96	44	high	2 x AAA	–	43.80 x 58.25	ABS (UL 94 HB)	B 70 05 107	B 70 05 109	
 M	150	100	40	flat	• (see acc.)	clip-lock	101.90 x 58.30	ABS (UL 94 HB)	B 70 10 107	B 70 10 109	
	150	100	55	high	• (see acc.)	clip-lock	101.80 x 58.20	ABS (UL 94 HB)	B 70 15 107	B 70 15 109	
	150	100	40	flat	–	–	101.90 x 58.30	ABS (UL 94 HB)	B 70 10 207	B 70 10 209	
	150	100	55	high	–	–	101.80 x 58.20	ABS (UL 94 HB)	B 70 15 207	B 70 15 209	
 L	150	200	54	flat	• (see acc.)	clip-lock	94.10 x 149.40	ABS (UL 94 HB)	B 70 20 107	B 70 20 109	
	150	200	69	high	• (see acc.)	clip-lock	94.00 x 149.10	ABS (UL 94 HB)	B 70 25 107	B 70 25 109	
	150	200	54	flat	–	–	94.10 x 149.40	ABS (UL 94 HB)	B 70 20 207	B 70 20 209	
	150	200	69	high	–	–	94.00 x 149.10	ABS (UL 94 HB)	B 70 25 207	B 70 25 209	
ERGO-CASE with display panel*2						colour combination of enclosure/display panel					
	L						off-white/ off-white	off-white/ translucent	black/ black	black/ translucent	
 L	150	200	54	flat	• (see acc.)	clip-lock	83.80 x 141.10	B 70 20 137	B 70 20 147	B 70 20 139	B 70 20 149
	150	200	69	high	• (see acc.)	clip-lock	83.80 x 141.10	B 70 25 137	B 70 25 147	B 70 25 139	B 70 25 149
	150	200	54	flat	–	–	83.80 x 141.10	B 70 20 237	B 70 20 247	B 70 20 239	B 70 20 249
	150	200	69	high	–	–	83.80 x 141.10	B 70 25 237	B 70 25 247	B 70 25 239	B 70 25 249

\*1 With ERGO-CASE S, case assembly with threaded screws; advantageous when changing batteries.

\*2 Material: ABS (UL 94 HB), translucent display panel PC (UL 94 V-0). Protection class IP 54 not possible.



## ERGO-CASE ACCESSORIES

Article	For ERGO-CASE	Version / Equipment	Part-No.
① Set of battery compartment	M, L	ABS, off-white, for 4 x 1.5 V mignon cells (AA), battery clips nickel-plated*5	A 93 45 217
② Battery compartment	M, L	ABS, off-white, for 1 x 9 V flat battery (PP3)	A 91 74 003
	M, L	ABS, off-white, for 2 x 9 V flat batteries (PP3)	A 91 74 002
③ Set of battery clips	S	for 2 x 1.5 V micro cells (AAA), incl. battery contact for serial connection	B 71 00 002
	M, L	tin-plated, for 1 x 9 V flat battery (PP3)	A 91 74 006
	M, L	tin-plated, for 2 x 9 V flat batteries (PP3)	A 91 61 002
④ Plug-in contact	M, L	for 1 x 9 V flat battery (PP3)	A 91 60 003
⑤ Sealing	S	for sealing up to IP 54	B 71 00 005
	M	for case version without battery compartment and lid, sealing up to IP 54	B 71 10 005
	L	for case version without battery compartment and lid, sealing up to IP 54	B 71 20 005
⑤ Sealing kit	M	for case version with battery compartment and lid, sealing up to IP 54	B 71 10 001
	L	for case version with battery compartment and lid, sealing up to IP 54	B 71 20 001
⑥ Strap eyelet*4	S, M, L	PA 6, volcano, for strap attachment and secure storage of the cases with wall suspension element, kit with 2 pcs (4 mounting holes ø 4.5 mm necessary)	B 71 10 028
⑦ Belt strap	XS, S, M, L	elastic belt with clamp lock, approx. 450 x 35 mm, black	B 71 10 129
	S, M, L	belt strap with push-in buckle, approx. 1,200 x 30 mm, black	B 71 10 139
	S, M, L	belt strap with push-in buckle, approx. 1,500 x 30, black	B 71 10 149
⑧ Wall suspension element*3	S, M	PA 6, volcano, for storing the cases, with removal securing clip	B 71 10 048
	L	PA 6, volcano, for storing the cases, with removal securing clip	B 71 20 048
⑨ Contacts*4	S, M, L	contact male for the wall suspension element, 6-pole	A 91 78 007
	S, M, L	contact female for the case, 6-pole (additional holes necessary)	A 91 78 008
⑩ Protector	M (high)	Elastomer, volcano, absorbs impacts and for surface protection	B 71 15 108
⑪ Ring eyelet	S, M	plastic, volcano, inside ring ø 2.5 mm, max. wall thickness 3 mm, location hole ø 4 mm required	A 91 00 001
⑫ Lanyard "Reflex"	XS	silver/black, with quick-action lock, approx. 860 mm long	B 91 00 022
⑬ Lanyard "Woven"	XS	black, with safety closure, approx. 900 mm long	B 91 00 053
⑭ Hand strap "Woven"	XS, S, M	grey, with safety closure, approx. 200 mm long	B 91 00 044
⑮ Wrist strap	XS	black, elastic belt with velcro, approx. 280 mm long	B 91 00 033
			off-white      black
⑯ Belt / pocket clip	S, M	PA 6, 2 mounting holes ø 4.2 mm necessary, 1 pc	B 71 10 107      B 71 10 109



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\*3 the strap eyelet attachment (⑥, separate article) is required for storing the case

\*4 see assembly instruction on our website [www.okw.com](http://www.okw.com)

\*5 complies with DIN EN 60601 (short circuit caused by incorrect insertion of batteries impossible)



## HAND-TERMINAL

HAND-TERMINAL	Outside dim. in mm			Version / Equipment top part	Material base part and top part	Part-No.	
	L	W	H			off-white RAL 9002	black RAL 9005
 M	220	120	65	I closed	Blend PC+ABS (UL 94 V-0)	A 90 46 107	A 90 46 109
	220	120	65	II open*1	Blend PC+ABS (UL 94 V-0)	A 90 46 207	A 90 46 209

## HAND-TERMINAL ACCESSORIES

Article	For HAND-TERMINAL	Version / Application	Part-No.		
① Front panel	M	Al, matt anodised, 2 mm thick, for case version II, 1 front panel	A 91 46 101		
② Sealing kit	M	for the case, for sealing up to IP 65	A 91 46 106		
③ Sealing	M	for the front panel, for sealing up to IP 65	A 91 46 206		
④ Plug-in contact	M	for 1 x 9 V flat battery (PP3)	A 91 60 003		
⑤ Battery spacer	M	PE foam with one-side adhesive coating, to secure all battery types	A 92 50 250		
			for 4 x 1.5 V (AA)	for 1 x 9 V (PP3)	for 2 x 9 V (PP3)
⑥ Set of battery compartment	M	ABS, off-white, battery clips nickel-plated*2	A 93 45 217	–	–
⑦ Battery compartment	M	ABS, off-white	–	A 91 74 003	A 91 74 002
⑧ Set of battery clips	M	tin-plated	–	A 91 74 006	A 91 61 002






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\*1 with frame cover for inserting an aluminium front panel (accessory); visible cutout for the front panel corresponds to recessed operating area of membrane keyboard; front panel installation from the rear; the assembly kit is supplied with the enclosure

\*2 complies with DIN EN 60601 (short circuit caused by incorrect insertion of batteries impossible)



**CARRYTEC**

CARRYTEC	Outside dim. in mm W H D	Equipment (dim. in mm) max. dim. keypad max. dim. display		Material	Colour	Part-No.			
		W	H				D		
	S	222	205	80	178.5 x 130.5	8.4" / 21 cm	ABS (UL 94 HB)	off-white, RAL 9002*1	B 42 08 107
		222	205	80	178.5 x 130.5	8.4" / 21 cm	ASA+PC (UL 94 V-0)	lava*2	B 42 08 208
	M	270	247	91	219.5 x 162.5	10.4" / 26 cm	ABS (UL 94 HB)	off-white, RAL 9002*1	B 42 10 107
		270	247	91	219.5 x 162.5	10.4" / 26 cm	ASA+PC (UL 94 V-0)	lava*2	B 42 10 208
	L	348	303	117	see our website	13.4" / 34 cm	ABS (UL 94 HB)	off-white, RAL 9002*1	B 42 13 107
		348	303	117	see our website	13.4" / 34 cm	ASA+PC (UL 94 V-0)	lava*2	B 42 13 208

**CARRYTEC ACCESSORIES**

Article	For CARRYTEC	Version / Application	ABS (UL 94 HB) off-white	Part-No. ASA+PC (UL 94 V-0) off-white	lava
① Station	S, M	table stand/wall suspension element, for charging electronics etc.	B 43 08 117	–	B 43 08 218
	L	table stand, for charging electronics etc.	B 43 13 117	–	B 43 13 218
② Base panel for station	S, M, L	recommended for table-top applications, incl. rubber feet	B 43 08 127	–	B 43 08 228
③ Battery compartment kit*3	S, M, L	for 5 x 1.5 V mignon cells (AA), battery contacts nickel-plated	A 93 38 117	–	A 93 38 218
④ Holding clamp*4	S, M, L	PA reinforced, for round tubes ø 32 mm / rails 25 x 10 x 1.5 mm (DIN EN ISO 19054)		B 43 08 237	B 43 08 238
⑤ Sealing	S	for the enclosure, sealed up to IP 54			B 43 08 001
	M	for the enclosure, sealed up to IP 54			B 43 10 001
	L	for the enclosure, sealed up to IP 54			B 43 13 001
⑥ Contacts	S, M, L	contact male for the station, 6-pole (machining required)			A 91 78 007
	S, M, L	contact female for the enclosure, 6-pole (machining required)			A 91 78 008
⑦ Protection bag*5	S	"left-hand side", moulded plastic/textile part, grey, approx. 75 x 173 x 55 mm, protects enclosure, cables and sensors			B 43 08 610
	S	"right-hand side", moulded plastic/textile part, grey, approx. 75 x 173 x 55 mm, protects enclosure, cables and sensors			B 43 08 600
⑧ Shoulder strap	S with protection bags	approx. 1400 mm long, for carrying the enclosures with "left/right-hand side" protection bags			B 43 08 650
⑨ Self-tapping screw	S, M, L	ø 2.5 x 6 mm (PZ1), for mounting PCBs, 1 pc			A 03 25 080
⑩ Torx screwdriver T10	S, M, L	Torx 10, with ergonomic handle, suitable for assembly of enclosure, station and holding clamp			A 03 99 T10



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\*1 Handle pad made of TPE, volcano.

\*2 Handle pad made of TPE, orange.


\*3 Machining of the back of the enclosure for battery compartment insert on request. Assembly: Holder screwed from behind. Alternatively with adhesive foil, on request. Battery compartment lid snap-in and/or screw-on.

\*4 2 mounting holes ø 2.4 mm are required; for attachment, 2 stainless steel Torx screws ø 3 x 8 mm (Torx 10) are included in the set.

\*5 Interfaces can be preconnected and are ready for use at all times. Practical zip. Pull out only as much cable as you need for your current application. With eyelet for use with the shoulder strap (separate article).



## SENSO-CASE

SENSO-CASE	Outside dim. in mm						Equipment push-button	Material	Part-No.	
	L	L <sub>2</sub>	W	W <sub>2</sub>	H	H <sub>2</sub>			off-white RAL 9002	lava
 M	180	78	86	32	45	25	—	ABS (UL 94 HB)	A 90 56 107	A 90 56 108
	180	78	86	32	45	25	• (single-pole)* <sup>1</sup>	ABS (UL 94 HB)	A 90 56 207	A 90 56 208

## SENSO-CASE ACCESSORIES

Article	For SENSO-CASE	Version / Application	Part-No.	
① Battery holder* <sup>2</sup>	M	PP, black, for 2 x 1.5 V mignon cells (AA), 1 pc	A 91 56 001	
② Battery holder	M	spring steel, nickel-plated, for 1 x 9 V flat battery (PP3), 1 set	A 91 56 003	
③ Plug-in contact* <sup>3</sup>	M	for battery holder ① or 1 x 9 V flat battery (PP3), cable length 152 mm	A 91 56 002	
④ Set of strain relief	M	for strain relief of cable connected applications	A 91 66 004	
⑤ Cable gland	M	for cable ø 5.0 - 5.9 mm, elastomer, volcano	A 91 66 101	
		for cable ø 4.2 - 5.0 mm, elastomer, volcano	A 91 66 131	
		for cable ø 3.4 - 4.2 mm, elastomer, volcano	A 91 66 161	
⑥ Self-tapping screw	M	2.5 x 6 mm, crosshead screw Z (PZ1), for mounting PCBs, 1 pc	A 03 05 031	
⑦ Ring eyelet	M	plastic, volcano, inside ring ø 4 mm, max. wall thickness 4 mm, location hole ø 5 mm required	A 91 00 002	
			off-white	lava
⑧ Holder	M	ABS, also suitable for cable connected applications	A 91 56 307	A 91 56 308
⑨ Adhesive foil	holder M	double-sided adhesive foil with foam carrier	A 91 56 005	



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\*<sup>1</sup> case set incl. single-pole contact (max. 28 V/100 mA), assembly elements, connection cables and elastic cap made of TPE in the colour orange; the protection class remains

\*<sup>2</sup> contacts to fit the plug-in contact ③

\*<sup>3</sup> with protective case



## HAND-HELD-BOX

HAND-HELD-BOX	Outside dim. in mm			Version / Equipment (dim. in mm)			max. dim. keypad	Material	Part-No.		
	L	W	H	battery compartment	display cutout	off-white RAL 9002			black RAL 9005		
	P	145	80	36.5/29.5	I*1	1 x 9 V / 1 x C**3	50 x 20	—	ABS (UL 94 HB)	A 90 60 007	A 90 60 009
		145	80	36.5/29.5	II*2	1 x 9 V / 1 x C**3	50 x 20	—	ABS (UL 94 HB)	A 90 60 017	A 90 60 019
	M	145	80	38.5/31.5	I	1 x 9 V / 1 x C**3	50 x 20	65 x 64.90	ABS (UL 94 HB)	A 90 62 017	A 90 62 019
	N	180	100	44/35.5	I	2 x 9 V / 4 x AA	65 x 23	75.10 x 80.00	ABS (UL 94 HB)	A 90 61 017	A 90 61 019
		180	100	44/35.5	II	—	65 x 23	75.10 x 80.00	ABS (UL 94 HB)	A 90 61 117	A 90 61 119

## HAND-HELD-BOX ACCESSORIES

Article	For HAND-HELD-BOX	Version / Application	Part-No.
① Set of battery clips	N	nickel-plated, for 4 x 1.5 V mignon cells (AA)**5	A 91 90 013
② Plug-in contact	P, M, N	for 1 x 9 V flat battery	A 91 60 003
③ Switch cap	P	black, for rocker switch application	A 91 60 009
	P	off-white, for rocker switch application	A 91 60 007
④ Cover plug	P, M	black, for the screw holes in the bottom, 4 pcs each case necessary	A 91 60 002
⑤ Tilt foot bar*4	N	steel, for ergonomic canting	A 93 61 009
⑥ Display window	P	plexiglass transparent	A 91 60 004
	M	plexiglass transparent	A 91 60 005
	N	plexiglass transparent	A 91 61 004
⑦ Adhesive foil	P, M	transparent, for fastening the display window (from rear)	A 91 60 006
	N	transparent, for fastening the display window (from rear)	A 91 61 005
⑧ Ring eyelet	P, M, N	plastic, volcano, inside ring ø 4 mm, max. wall thickness 4 mm, location hole ø 5 mm required	A 91 00 002



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\*1 with lateral recess for rocker switch (accessory)


\*2 without lateral recess for rocker switch

\*3 the 1.5 V baby cell is contacted by means of a soldering contact

\*4 suitable tilt foot bar made of plastic for HAND-HELD-BOXES P and M see universal accessories

\*5 complies with DIN EN 60601 (short circuit caused by incorrect insertion of batteries impossible)

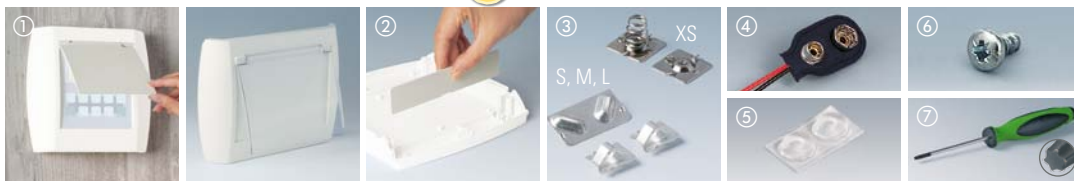
## DIATEC

DIATEC	Size	Outside dim. in mm			Equipment (dim. in mm) max. dim. keypad	Material	Part-No.	
		L	W	H			off-white RAL 9002	lava
	XS*1 <b>NEW</b>	155	150	37	91.20 x 91.20	ABS (UL 94 HB)	A 90 92 107	A 90 92 108
	S*2	200	210	48	127.60 x 119.70	ABS (UL 94 HB)	A 90 93 107	A 90 93 108
	M*2	200	270	48	127.60 x 179.60	ABS (UL 94 HB)	A 90 94 107	A 90 94 108
	L*2 <b>NEW</b>	200	330	48	127.60 x 239.60	ABS (UL 94 HB)	A 90 95 107	A 90 95 108

## DIATEC ACCESSORIES

Article	For DIATEC	Version / Application	Part-No.		
			ABS, case colour*3	PC, translucent*4	PC, clear*4
① Hinged lid	S, L (off-white)*5	2 mounting holes $\varnothing$ 4.2 mm necessary, 1 set	A 91 93 127	A 91 93 121	A 91 93 131
	S, L (lava)*5	2 mounting holes $\varnothing$ 4.2 mm necessary, 1 set	A 91 93 128	A 91 93 122	A 91 93 132
	M (off-white)	2 mounting holes $\varnothing$ 4.2 mm necessary, 1 set	A 91 94 127	A 91 94 121	A 91 94 131
	M (lava)	2 mounting holes $\varnothing$ 4.2 mm necessary, 1 set	A 91 94 128	A 91 94 122	A 91 94 132

Article	For DIATEC	Version / Application	Part-No.
② Slot-in panel	S, M, L	ABS, off-white, 156 x 30 x 3 mm, 1 pc	A 91 94 007
③ Set of battery clips <b>NEW</b>	XS	nickel-plated for 2 x 1.5 V mignon cells (AA)	A 91 90 015
	S, M, L	tin-plated for 2 x 1.5 V mignon cells (AA)	A 91 90 002
④ Plug-in contact	S, M, L	for one 9 V flat battery (PP3), 1 pc	A 91 60 003
⑤ Non-slip pads	XS	transparent, self-adhesive, secure non-slip desk top positioning, 1 pair	A 92 07 150
	S, M, L	transparent, self-adhesive, secure non-slip desk top positioning, 1 pair	A 92 12 330
⑥ Self-tapping screw	XS, S, M, L	$\varnothing$ 3 x 6 mm (PZ1), for mounting PCBs, 1 pc	A 03 06 031
⑦ Torx screwdriver T10 <b>NEW</b>	XS	Torx 10, with ergonomic handle, for assembling enclosure	A 03 99 T10



universal accessories on pages 178-187

\*1 supply: 1 bottom and top part each, assembly kit;  
assembly of bottom and top part with 2 Torx T10 self-tapping screws, stainless steel



















\*2 supply: 1 bottom and top part each, 1 trim left and right side incl. 2 locking elements, assembly kit;  
assembly of top and bottom part with 4 self-tapping screws (PZ2), snap-on side trims. If required, the trims can also be locked, thus preventing unauthorised access

\*3 in the relevant case colour

\*4 fasteners from the assembly set in the case colour in question

\*5 hinged lid for covering the dialogue area of the DIATEC S or for partially covering the dialogue area of the DIATEC L (half side)

## VARIO-BOX STANDARD KITS

 WR3	 F3	 H3	 WR3	 F3
<b>B 03 42 017</b> VARIO-BOX K 309 / IP 54 264 x 230 x 90.5 mm	<b>B 03 42 027</b> VARIO-BOX K 309 F / IP 64 264 x 230 x 91.5 mm	<b>B 03 42 037</b> VARIO-BOX K 310 H / IP 65 264 x 230 x 101 mm	<b>B 03 42 047</b> VARIO-BOX K 311 R / IP 54 264 x 230 x 106.5 mm	<b>B 03 42 057</b> VARIO-BOX K 312 RF / IP 64 264 x 230 x 123 mm
 H3	 WR3 / 19"	 F3/19"	 19"	 WR3
<b>B 03 42 067</b> VARIO-BOX K 313 RH / IP 65 264 x 230 x 132.5 mm	<b>B 03 42 077</b> VARIO-BOX K 322 R / IP 54 264 x 230 x 215.5 mm	<b>B 03 42 087</b> VARIO-BOX K 323 RF / IP 64 264 x 230 x 233 mm	<b>B 03 42 097</b> VARIO-BOX K 324 RH / IP 65 264 x 230 x 241.5 mm	<b>B 04 42 017</b> VARIO-BOX 309 / IP 54 264 x 150 x 90 mm
 F3	 H3	 WR3	 F3	 H3
<b>B 04 42 027</b> VARIO-BOX 309 F / IP 64 264 x 150 x 106.5 mm	<b>B 04 42 037</b> VARIO-BOX 310 H / IP 65 264 x 150 x 116 mm	<b>B 04 42 047</b> VARIO-BOX 311 R / IP 54 264 x 150 x 121.5 mm	<b>B 04 42 057</b> VARIO-BOX 312 RF / IP 64 264 x 150 x 138 mm	<b>B 04 42 067</b> VARIO-BOX 313 RH / IP 65 264 x 150 x 147.5 mm
 WR3 / 19"	 WR3 / 19"	 WR3 / 19"	 WR3 / 19"	 WR3 / 19"
<b>B 04 42 107</b> VARIO-BOX 322 R / IP 54 264 x 150 x 230.5 mm	<b>B 04 42 077</b> VARIO-BOX 322 RM / IP 54 264 x 150 x 230.5 mm	<b>B 04 42 167</b> VARIO-BOX 322 RK / IP 54 264 x 150 x 230.5 mm	<b>B 04 42 137</b> VARIO-BOX 322 RMK / IP 54 264 x 150 x 230.5 mm	<b>B 04 42 197</b> VARIO-BOX 322 RG / IP 54 264 x 150 x 230.5 mm
 F3/19"	 F3/19"	 F3/19"	 F3/19"	 F3/19"
<b>B 04 42 117</b> VARIO-BOX 323 RF / IP 64 264 x 150 x 247 mm	<b>B 04 42 087</b> VARIO-BOX 323 RFM / IP 64 264 x 150 x 247 mm	<b>B 04 42 177</b> VARIO-BOX 323 RFK / IP 64 264 x 150 x 247 mm	<b>B 04 42 147</b> VARIO-BOX 323 RFMK / IP 64 264 x 150 x 247 mm	<b>B 04 42 207</b> VARIO-BOX 323 RFG / IP 64 264 x 150 x 247 mm
 19"	 19"	 19"	 19"	 19"
<b>B 04 42 127</b> VARIO-BOX 324 RH / IP 65 264 x 150 x 256.5 mm	<b>B 04 42 097</b> VARIO-BOX 324 RHM / IP 65 264 x 150 x 256.5 mm	<b>B 04 42 187</b> VARIO-BOX 324 RHK / IP 65 264 x 150 x 256.5 mm	<b>B 04 42 157</b> VARIO-BOX 324 RHMK / IP 65 264 x 150 x 256.5 mm	<b>B 04 42 217</b> VARIO-BOX 324 RHG / IP 65 264 x 150 x 256.5 mm

? = matching front panel type; please order separately – see accessories page 138

Rear panels in pebble grey. Versions with terminal compartments have premarked openings on the bottom and at the rear. The terminal compartment cover is off-white.

The assembly kits are supplied as single parts with gasket and the corresponding fastening elements.



**VARIO-BOX SINGLE PIECES (FOR POSSIBLE COMBINATIONS SEE PAGE 139)**

Article	Version / Application	Part-No.
① Rear panel K3 (with terminal compartment)	ABS, pebble grey, with premarked openings on bottom and rear	B 05 42 108
	ABS, off-white, with premarked openings on bottom and rear	B 05 42 107
	ABS, pebble grey, with premarked openings only on rear	B 05 42 118
	ABS, off-white, with premarked openings only on rear	B 05 42 117
② Rear panel 3 (without terminal compartment)	ABS, pebble grey	B 05 42 128
	ABS, off-white	B 05 42 127
③ Frame K3	ABS, off-white	B 05 42 207
④ Frame L3	ABS, off-white	B 05 42 227
⑤ Side-covers	version I, ABS, off-white, without handle recess, simple clip into frame L3, 2 pcs	B 05 02 417
	version II, ABS, off-white, with handle recess, simple clip into frame L3, 2 pcs	B 05 02 407
	version III, same version I but with tilt feet, simple clip into frame L3, 2 pcs	B 05 02 437
	version IV, same version II but with tilt feet, simple clip into frame L3, 2 pcs	B 05 02 427
	version V, ABS, off-white, without handle recess but with holes for mounting the handle, simple clip into frame L3, 2 pcs	B 05 02 447
⑥ Handle 3 – Bail Arm	lateral parts pebble grey, push-button off-white, aluminium profile, with 30° indexing	B 05 43 528
	lateral parts and push-button off-white, aluminium profile, with 30° indexing	B 05 43 527
	lateral parts off-white, push-button pebble grey, aluminium profile, with 30° indexing	B 05 43 526
⑦ Front frame 3	ABS, off-white	B 05 42 247
⑧ Front cover 3	ABS, off-white	B 06 42 147
⑨ Cover 3	SAN, transparent, with hinge, left-hand or right-hand hinge, 2 cross-head screws	B 05 43 301
	ABS, pebble grey, with hinge, left-hand or right-hand hinge, 2 cross-head screws	B 05 42 308
	SAN, transparent, without hinge, standard-fixing with 4 cross-head screws	B 05 43 321
	ABS, pebble grey, without hinge, standard-fixing with 4 cross-head screws	B 05 42 328

**VARIO-BOX ACCESSORIES**

Article	Version / Application	Part-No.
⑩ Front panel WR3	aluminium, matt anodised, 260.3 x 146.3 x 2 mm, 1 pc	B 06 40 100
⑪ Front panel F3	aluminium, matt anodised, 255.5 x 141.5 x 2 mm (only for combination with front frame), clip in, 1 pc	B 06 40 120
⑫ Front panel H3	aluminium, matt anodised, 223.6 x 137.5 x 2 mm (for combination with cover), 1 pc	B 06 40 130
⑬ 19"-Front panel 3	aluminium, matt anodised, 223.3 x 128.4 x 2 mm (19"-tapped strip for mounting necessary), for versions with cover 3 and frame L3, 1 pc	B 06 40 110
⑭ Wall suspension element	PA glass-reinforced, pebble grey, protection class remains unchanged, available as a kit	B 06 03 308
⑮ Hinge	PA glass-reinforced, with quick-action lock, left / right-hand hinge, for combinations ① + ④ or ② + ④, 1 pc	B 05 03 538
	PA glass-reinforced, without quick-action lock, left / right-hand hinge, for combinations ① + ④ or ② + ④, 1 pc	B 05 03 548
⑯ 19"-Card guides 42 TE, 3 HE	ABS, clip into place, for frame L3 (④) – not suitable for cassette units, 1 set supplied (1 top guide, 1 bottom guide), up to 5 sets of guides can be fitted into one case	B 06 02 508
⑰ 19"-Mounting kit 3	this kit allows DIN 41612 or 41617 connectors to be assembled to frame L3 (④) when 19"-card guides (⑯) are fitted; 4 supports, 2 aluminium profiles, fixings	B 05 02 558
⑱ 19"-Tapped & threaded strip 3	if 19"-front panel 3 or cover front panels are used, suitable for frame L3 (④), 2 pcs	B 06 40 510
⑲ 19"-Cover front panel	aluminium, matt anodised, width 2 TE between case width 44 TE and effective width 42 TE, for mounting 19"-tapped and threaded strip is necessary, 1 pc	B 06 00 150
⑳ Security element	Polypropylene, for front cover 3 and terminal compartment cover 3, 2 pcs	B 06 00 310
㉑ Knurled screw	for locking front cover instead of the standard cross-head screw when combined with frame K3 (③) or frame L3 (④), 2 pcs	B 06 00 348
㉒ Lock	combinations rear panel K3 (①) / rear panel 3 (②) with frame K3 (③) / frame L3 (④) and cover 3 (⑨), additional drilling required, 1 pc	B 06 00 320

**19"-TECHNIQUE – INFORMATION –**


The version with the long frame L3 (④) together with the 19"-mounting kit 3 (⑰), enables the fitting of DIN 41612 and DIN 41617 connectors. Cases with a terminal compartment (rear panel K3, ①) will only accept connectors with contacts up to 13 mm long.

Together with the hinge (⑮) the wiring pins are freely accessible, even when the circuit boards are fitted. The hinge can be supplied with or without a plastic lock. The version with the lock enables easy access to the wiring level. If the version without the lock is ordered the frame and the rear panel must be screwed in place.



## POSSIBLE COMBINATIONS

WALL MOUNTING CASES

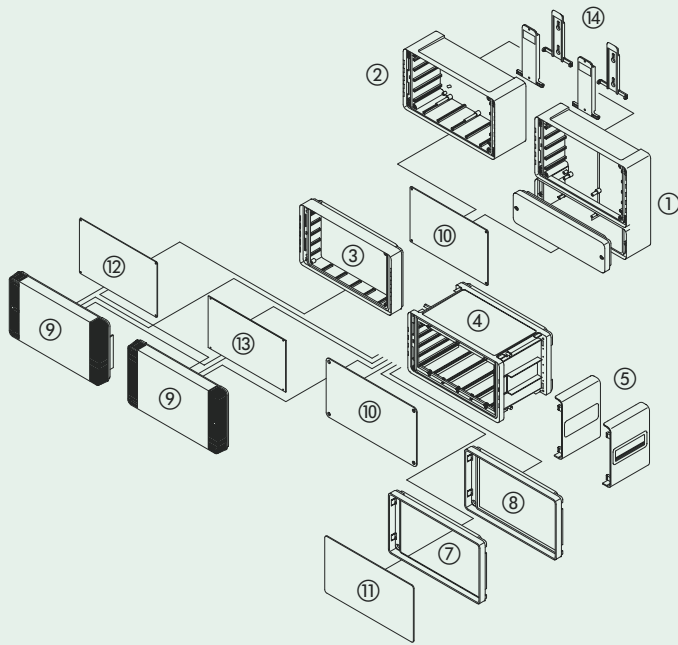
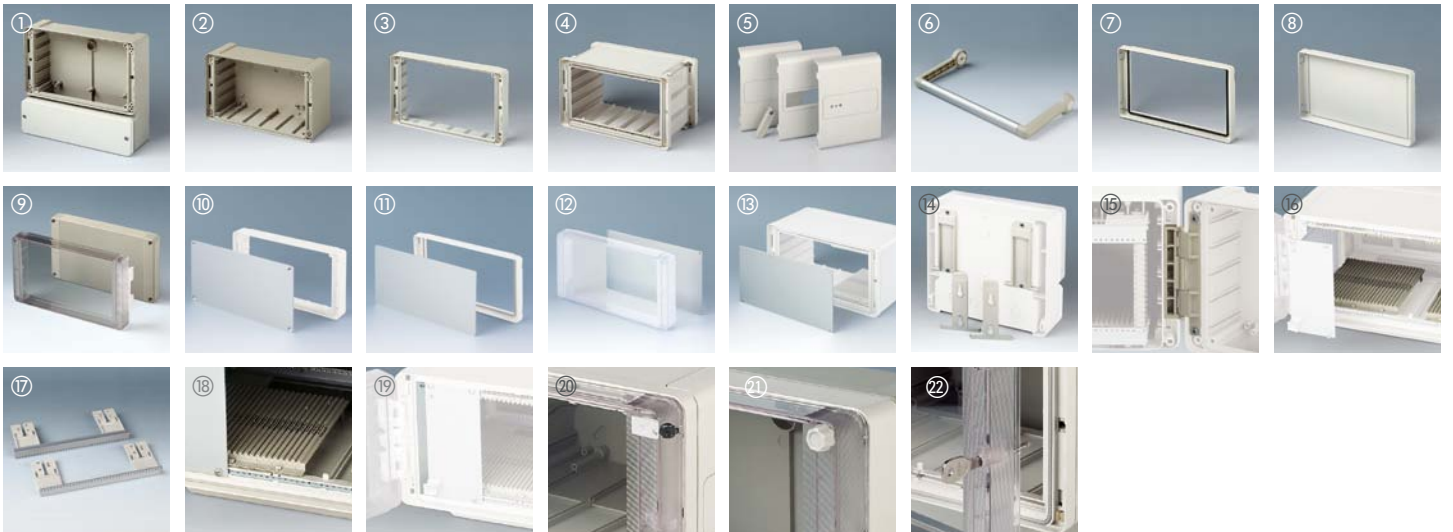
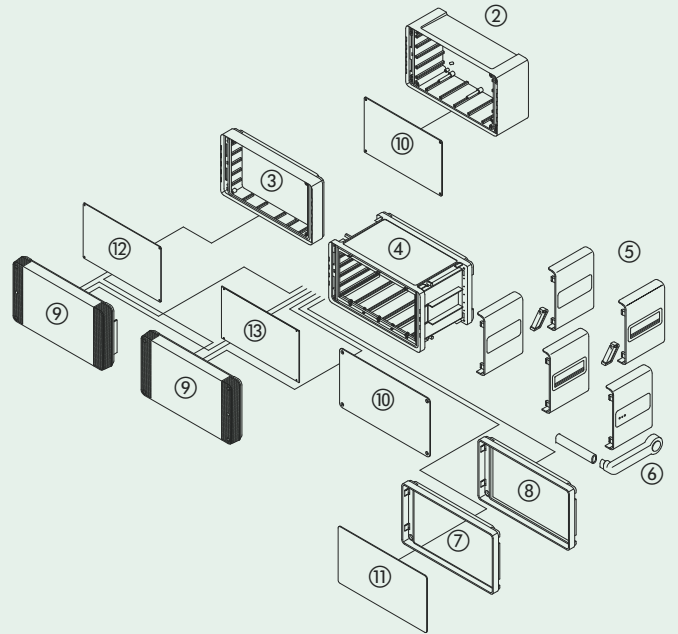




TABLE TOP CASES



Supply: The fastening elements required are included in the kits supplied.

## WALLTEC

Enclosure	Type	Outside dim. in mm			Equipment premarked openings for cable entry and outlet	Material	Part-No. light grey RAL 7035
		W	H	D			
	WALLTEC 166 F	166	160	80	rear	ABS (UL 94 HB)	A 97 30 101
	WALLTEC 166 D	166	160	108	rear	ABS (UL 94 HB)	A 97 31 101
	WALLTEC 213	213	185	90	rear	ABS (UL 94 HB)	A 97 32 101
	WALLTEC 257	257	219	122	rear	ABS (UL 94 HB)	A 97 33 101
	WALLTEC 296	296	260	95	rear	ABS (UL 94 HB)	A 97 34 101
	WALLTEC 363	363	316	134	rear	ABS (UL 94 HB)	A 97 35 101

Enclosure with transparent cover*1	Type	Outside dim. in mm			Equipment premarked openings for cable entry and outlet	Material	Part-No. light grey RAL 7035
		W	H	D			
	WALLTEC 188 F	188	160	106	rear	PC (UL 94 5V)	A 97 30 112
	WALLTEC 188 D	188	160	134	rear	PC (UL 94 5V)	A 97 31 112
	WALLTEC 235	235	185	119	rear	PC (UL 94 5V)	A 97 32 112
	WALLTEC 280	280	219	156	rear	PC (UL 94 5V)	A 97 33 112
	WALLTEC 320	320	260	129	rear	PC (UL 94 5V)	A 97 34 112
	WALLTEC 390	390	316	167	rear	PC (UL 94 5V)	A 97 35 112

## WALLTEC ACCESSORIES

Article	For Type	Version / Application	Part-No.
① Front lid	WALLTEC 166 F / D	PC (UL 94 5V), light grey, 166 x 106 x 16 mm, max. dim. keypad 131 x 93 mm	A 91 30 102
	WALLTEC 213	PC (UL 94 5V), light grey, 213 x 125 x 20 mm, max. dim. keypad 179.2 x 112 mm	A 91 32 102
	WALLTEC 257	PC (UL 94 5V), light grey, 257 x 157 x 30 mm, max. dim. keypad 222.4 x 143.3 mm	A 91 33 102
	WALLTEC 296	PC (UL 94 5V), light grey, 296 x 196 x 30 mm, max. dim. keypad 251.6 x 182.4 mm	A 91 34 102
② Front panel	WALLTEC 166 / 188	Al, matt anodised, 158.5 x 98.5 x 1.5 mm	A 91 30 116
	WALLTEC 213 / 235	Al, matt anodised, 205.5 x 117.5 x 1.5 mm	A 91 32 116
	WALLTEC 257 / 280	Al, matt anodised, 250 x 150 x 1.5 mm	A 91 33 116
	WALLTEC 296 / 320	Al, matt anodised, 288 x 188 x 1.5 mm	A 91 34 116
	WALLTEC 363 / 390	Al, matt anodised, 353 x 223 x 1.5 mm	A 91 35 116
③ Mounting plate (screws supplied with enclosure)	WALLTEC 166 / 188	Steel, galvanised, 136 x 133 x 1.5 mm, for mounting of components	A 91 30 127
	WALLTEC 213 / 235	Steel, galvanised, 142 x 200 x 1.5 mm, for mounting of components	A 91 32 127
	WALLTEC 257 / 280	Steel, galvanised, 225 x 175 x 1.5 mm, for mounting of components	A 91 33 127
	WALLTEC 296 / 320	Steel, galvanised, 282 x 215 x 1.5 mm, for mounting of components	A 91 34 127
	WALLTEC 363 / 390	Steel, galvanised, 345 x 258 x 1.5 mm, for mounting of components	A 91 35 127
④ Wall mounting brackets*2	166 F/D – 280	PC (UL 94 5V), light grey, set with 2 pcs incl. screws	A 91 00 132
⑤ Fastening element for DIN rails*2	166 F/D – 280	PC (UL 94 5V), light grey, for DIN EN 60715 TH35, set with 2 pcs (right/left)	A 91 00 142
⑥ Screw 40 x 18*2	with transparent cover	additional fastening for cover closure, 1 pc	A 91 00 156








\*1 cover unassembled; lock PA, green, RAL 6016; see assembly instruction on our website [www.okw.com](http://www.okw.com)

\*2 see assembly instruction on our website [www.okw.com](http://www.okw.com)



## SMART-BOX\*1

SMART-BOX	Outside dim. in mm L W H	Equipment (dim. in mm) protection class up to		max. dim. keypad	Material	Part-No. light grey, RAL 7035
 width 90	120 90 50	IP 66		75.30 x 82.00	ASA+PC (UL 94 V-0)	C 60 09 121
	160 90 50	IP 66		115.20 x 81.90	ASA+PC (UL 94 V-0)	C 60 09 161
 width 110	140 110 60	IP 66		95.2 x 102.00	ASA+PC (UL 94 V-0)	C 60 11 141
	200 110 60	IP 66		155.10 x 101.90	ASA+PC (UL 94 V-0)	C 60 11 201
 width 130	160 130 60	IP 66		115.20 x 122.00	ASA+PC (UL 94 V-0)	C 60 13 161
 width 150 <b>NEW</b>	180 150 60	IP 66		135.30 x 142.10	ASA+PC (UL 94 V-0)	C 60 15 181
 width 170	280 170 60	IP 65		235,10 x 161,90	ASA+PC (UL 94 V-0)	C 60 17 281

## SMART-BOX ACCESSORIES

Article	For SMART-BOX	Version / Application	Part-No.
① Case feet	for all case sizes	when using the case for desktop application, 4 pcs	C 22 99 018
② Lock	for all case sizes	safety lock to prevent unauthorised access, 1 pc	C 61 00 005
③ Security kit	for all case sizes	for use with lead tags, 2 pcs	C 61 00 016
		plug as a single part, 1 plug	C 61 00 006





universal accessories on pages 178-187

\*1 Supply: Each 1 base and top part with sealing, 2 trims (hinged), 1 assembly kit incl. cover retention device.






## ROBUST-BOX

ROBUST-BOX	Outside dim. in mm			Version / Equipment (dim. in mm)		max. dim. keypad	Part-No.		
	L	W	H	max. size of PCB*2 "T"	max. size of PCB*2 "G"		light grey, RAL 7035 version I (ABS)	version II (PC)	
	width 80	80	80	60	40 x 65	40 x 65	42.70 x 65.60	C 20 08 081	C 20 08 082
		80	80	80	40 x 65	40 x 65	42.70 x 65.60	C 21 08 081	C 21 08 082
		120	80	60	80 x 65	80 x 65	82.65 x 65.60	C 20 08 121	C 20 08 122
		120	80	80	80 x 65	80 x 65	82.65 x 65.60	C 21 08 121	C 21 08 122
		160	80	60	120 x 65	120 x 65	122.60 x 65.65	C 20 08 161	C 20 08 162
		160	80	80	120 x 65	120 x 65	122.60 x 65.65	C 21 08 161	C 21 08 162
		240	80	60	200 x 65	200 x 65	202.70 x 65.60	C 20 08 241	C 20 08 242
		240	80	80	200 x 65	200 x 65	202.70 x 65.60	C 21 08 241	C 21 08 242
	width 120	120	120	60	80 x 105	80 x 105	82.70 x 105.50	C 20 12 121	C 20 12 122
		120	120	90	80 x 105	80 x 105	82.70 x 105.50	C 21 12 121	C 21 12 122
		200	120	60	160 x 105	160 x 105	162.60 x 105.50	C 20 12 201	C 20 12 202
		200	120	90	160 x 105	160 x 105	162.60 x 105.50	C 21 12 201	C 21 12 202
		240	120	60	200 x 105	200 x 105	202.65 x 105.40	C 20 12 241	C 20 12 242
		240	120	90	200 x 105	200 x 105	202.65 x 105.40	C 21 12 241	C 21 12 242
		240	160	60	120 x 145	120 x 145	122.60 x 145.50	C 20 16 161	C 20 16 162
		240	160	90	120 x 145	120 x 145	122.60 x 145.50	C 21 16 161	C 21 16 162
width 160	width 160	240	160	60	200 x 145	200 x 145	202.50 x 145.50	C 20 16 241	C 20 16 242
		240	160	90	200 x 145	200 x 145	202.50 x 145.50	C 21 16 241	C 21 16 242
		240	160	120	200 x 142	203 x 149	202.50 x 145.50	C 24 16 241	C 24 16 242
		300	200	80	266 x 167	264 x 168	262.60 x 171.75	C 21 20 301	–
width 200	width 200	300	200	120	266 x 165	264 x 168	262.60 x 171.75	C 24 20 301	–
		300	200	160	266 x 165	264 x 167	262.60 x 171.75	C 25 20 301	–
		360	240	80	327 x 207	325 x 208	322.90 x 211.90	C 21 24 361	–
width 240	width 240	360	240	120	327 x 205	325 x 208	322.90 x 211.90	C 24 24 361	–
		360	240	160	326 x 205	324 x 207	322.90 x 211.90	C 25 24 361	–

## ROBUST-BOX SEPARATE PARTS (SINGLE PIECES)

ROBUST-BOX separate parts (dim. in mm)	Shell ABS, RAL 7035			Shell PC, RAL 7035						
	"T" with tongue		"G" with groove		"T" with tongue		"G" with groove			
	width 80 (L x W)	H = 40		H = 20		H = 40		H = 40		
		80 x 80	C 10 80 801	C 00 80 801	C 20 80 801	C 10 80 802	C 00 80 802	C 20 80 802		
		120 x 80	C 10 81 201	C 00 81 201	C 20 81 201	C 10 81 202	C 00 81 202	C 20 81 202		
		160 x 80	C 10 81 601	C 00 81 601	C 20 81 601	C 10 81 602	C 00 81 602	C 20 81 602		
		240 x 80	C 10 82 401	C 00 82 401	C 20 82 401	C 10 82 402	C 00 82 402	C 20 82 402		
width 120 (L x W)	width 120 (L x W)	H = 30		H = 60		H = 30		H = 30		
		120 x 120	C 01 21 201	C 21 21 201	C 11 21 201	C 01 21 202	C 21 21 202	C 11 21 202		
		200 x 120	C 01 22 001	C 21 22 001	C 11 22 001	C 01 22 002	C 21 22 002	C 11 22 002		
		240 x 120	C 01 22 401	C 21 22 401	C 11 22 401	C 01 22 402	C 21 22 402	C 11 22 402		
width 160 (L x W)	width 160 (L x W)	H = 30		H = 60		H = 30		H = 60		
		160 x 160	C 01 61 601	C 21 61 601	C 11 61 601	–	C 01 61 602	C 21 61 602	C 11 61 602	–
		240 x 160	C 01 62 401	C 21 62 401	C 11 62 401	C 31 62 401	C 01 62 402	C 21 62 402	C 11 62 402	C 31 62 402
width 200 (L x W)	width 200 (L x W)	H = 40		H = 80		H = 40		H = 80		
		300 x 200	C 12 03 001	C 42 03 001	C 22 03 001	C 52 03 001				
width 240 (L x W)	width 240 (L x W)	H = 40		H = 80		H = 40		H = 80		
		360 x 240	C 12 43 601	C 42 43 601	C 22 43 601	C 52 43 601				

## Accessories (only if separate parts are ordered)

Article	For case shells width 80	width 120	width 160	width 200	width 240
Assembly kit each 4 screws for the case assembly and for mounting PCBs	C 22 99 001	C 22 99 001	C 22 99 001	–	–
Assembly kit each 6 screws for the case assembly + 8 for PCBs, centre covers	–	–	–	C 22 99 002	C 22 99 002
Cover strips without holes PC, light grey, RAL 7035, each 1 pc	C 22 00 801	C 22 01 201	C 22 01 601	C 22 02 001	C 22 02 401
Cover strips with holes*3 PC, light grey, RAL 7035, each 1 pc	C 22 10 801	C 22 11 201	C 22 11 601	C 22 12 001	C 22 12 401



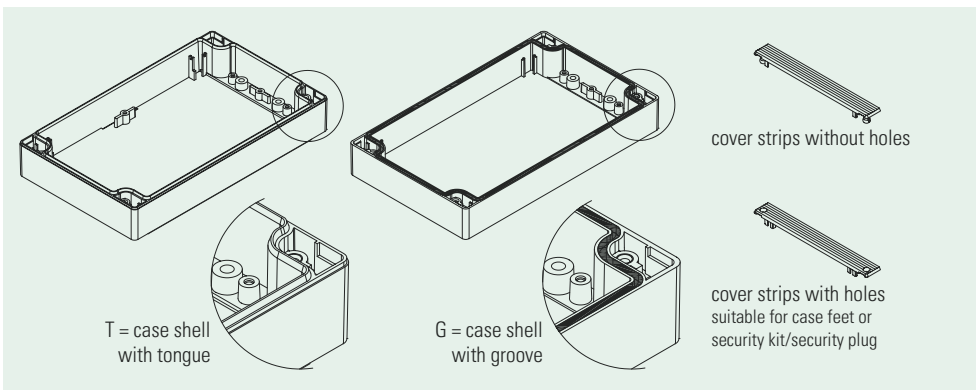
## ROBUS-BOX ACCESSORIES (UNIVERSAL)

Article	For ROBUS-BOX	Version / Application	Part-No.
① Case feet	for all case sizes	simply snap-in**4 when using the case for desktop applications, 4 pcs	C 22 99 018
② Wall mounting brackets	for all case sizes	for exterior wall mounting, 4 pcs incl. fixing screws	C 22 99 028
③ Securing hinge	width 80/120/160	for securing the cover, e.g. during servicing, 2 pcs incl. fixing screws	C 22 99 031
④ Hinge	for all case sizes	additional machining (drilling) required, 2 complete hinges	C 22 99 088
⑤ PCB support	width 120	for mounting pre-assembled PCB units, 2 pcs incl. fixing screws	C 22 99 058
	width 80/160/200/240	for mounting pre-assembled PCB units, 4 pcs incl. fixing screws	C 22 99 068
⑥ Security kit	width 80	for use with lead tags, each 4 plugs, 2 cover strips with holes for the top in light grey	C 22 99 048
	width 120		C 22 99 042
	width 160		C 22 99 046
	for all case sizes	plug as single part, 1 plug	C 22 99 040

Article	Version / Application	For ROBUS-BOX		
		width 80	width 120	width 160
⑦ Fastening elements to DIN rails	according to DIN EN 60715 TH35, 2 pcs + assembly kit	C 22 01 088	C 22 03 128	C 22 04 168
⑧ Cover strips (optionally supplied to the light grey coloured standard versions, simply clip into top or base)	silver grey, RAL 7001, 2 pcs for the top, 2 pcs for the base*3	C 22 01 082	C 22 03 123	C 22 04 162
	red, RAL 3020, 2 pcs for the top, 2 pcs for the base*3	C 22 01 084	C 22 03 124	C 22 04 164
	yellow, RAL 1023, 2 pcs for the top, 2 pcs for the base*3	C 22 01 085	C 22 03 125	C 22 04 165
	green, RAL 6024, 2 pcs for the top, 2 pcs for the base*3	C 22 01 086	C 22 03 126	C 22 04 166
	blue, RAL 5017, 2 pcs for the top, 2 pcs for the base*3	C 22 01 087	C 22 03 127	C 22 04 167



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To achieve one ROBUS-BOX from separate parts, for a special combination, please order:  
 1 shell "T" (with tongue).  
 1 shell "G" (with groove).  
 1 assembly kit.  
 4 cover strips (table top applications) or 2 cover strips (wall mounting or DIN rail mounting).

\*1 case assembly with 4 screws (width 80/120/160) and 6 screws (width 200/240);

Supply: two case shells (one with tongue; one with groove and gasket, each two pairs of cover strips (2 for the top, 2 with holes for the base) in light grey and 1 assembly kit.

\*2 LxW in mm. The dimensions were measured as clearance between the guides ridges (PCB assembly by means of PCB supports, accessories). To assemble the PCBs on the fastening pillars side L (length) the PCBs must be approx. 30 mm longer (cutouts necessary on the 4 corners in accordance with the case screw fittings).



\*3 cover strips with holes suitable for case feet or security kit/security plug (separate articles)

\*4 because of levelling out the length's tolerance of the cover strips we recommend to glue the case feet of sizes 200 x 300 and 240 x 360 mm

**Important: With additional machining please indicate the parts "with or without groove".**



## IN-BOX

IN-BOX*1	Outside dim. in mm			Version / Equipment (dim. in mm) max. size of PCB bottom part	ABS (UL 94 HB)	Part-No.	PC (V-2)
	L	W	H		RAL 7035	ABS/PC RAL 7035/transp.	RAL 7035
	84	82	55	53 x 73	C 70 08 011	C 70 08 014	C 70 08 012
	84	82	85	53 x 73	C 70 08 021	C 70 08 024	–
	122	82	55	91 x 73	C 70 12 011	C 70 12 014	C 70 12 012
	122	82	85	91 x 73	C 70 12 021	C 70 12 024	–
	124	122	55	93 x 113	C 70 13 031	C 70 13 034	C 70 13 032
	124	122	85	93 x 113	C 70 13 051	C 70 13 054	–
	162	82	55	131 x 73	C 70 16 011	C 70 16 014	C 70 16 012
	162	82	85	131 x 73	C 70 16 021	C 70 16 024	–
	162	122	90	131 x 113	C 70 16 061	C 70 16 064	C 70 16 062
	202	122	75	171 x 113	C 70 20 041	C 70 20 044	C 70 20 042
	202	122	90	171 x 113	C 70 20 061	C 70 20 064	–
	202	152	90	171 x 143	C 70 21 071	C 70 21 074	C 70 21 072
	252	162	90	220.5 x 152.5	C 70 25 081	C 70 25 084	C 70 25 082
	252	162	120	220.5 x 152.5	C 70 25 091	C 70 25 094	–
	302	232	90	270.5 x 222.5	C 70 30 101	C 70 30 104	C 70 30 102
	302	232	110	270.5 x 222.5	C 70 30 111	C 70 30 114	–

## IN-BOX ACCESSORIES

Article	For IN-BOX	Type TH 35		Type TH 15	
		Version	Part-No.	Version	Part-No.
① DIN rails each 1 pc.	84 x 82	steel, 66 x 35 x 7.5 mm	C 71 10 077	steel, 66 x 15 x 5.5 mm	C 71 10 087
	122 x 82	steel, 104 x 35 x 7.5 mm	C 71 11 077	steel, 104 x 15 x 5.5 mm	C 71 11 087
	124 x 122	steel, 108 x 35 x 7.5 mm	C 71 12 077	steel, 108 x 15 x 5.5 mm	C 71 12 087
	162 x 82, 162 x 122	steel, 144 x 35 x 7.5 mm	C 71 13 077	steel, 144 x 15 x 5.5 mm	C 71 13 087
	202 x 122	steel, 184 x 35 x 7.5 mm	C 71 15 077	steel, 184 x 15 x 5.5 mm	C 71 15 087
	202 x 152	steel, 168 x 35 x 7.5 mm	C 71 16 077	steel, 168 x 15 x 5.5 mm	C 71 16 087
	252 x 162	steel, 220 x 35 x 7.5 mm	C 71 17 077	steel, 220 x 15 x 5.5 mm	C 71 17 087
	302 x 232	steel, 283.5 x 35 x 7.5 mm	C 71 18 077	steel, 283.5 x 15 x 5.5 mm	C 71 18 087
② Mounting plate	84 x 82	insulating material, 73 x 53 x 2.5 mm, 1 pc		C 71 10 056	
	122 x 82	insulating material, 91 x 73 x 2.5 mm, 1 pc		C 71 11 056	
	124 x 122	insulating material, 113 x 93 x 2.5 mm, 1 pc		C 71 12 056	
	162 x 82	insulating material, 131 x 73 x 2.5 mm, 1 pc		C 71 13 056	
	162 x 122	insulating material, 131 x 113 x 2.5 mm, 1 pc		C 71 14 056	
	202 x 122	insulating material, 171 x 113 x 2.5 mm, 1 pc		C 71 15 056	
	202 x 152	insulating material, 171 x 143 x 2.5 mm, 1 pc		C 71 16 056	
	252 x 162	insulating material, 220.5 x 152.5 x 2.5 mm, 1 pc		C 71 17 056	
	302 x 232	insulating material, 270.5 x 222.5 x 2.5 mm, 1 pc		C 71 18 056	
	③ Wall mounting bracket	for all case sizes	for exterior wall mounting, kit with 4 pcs incl. fixing elements		C 71 00 092
④ Interior hinge	124 x 122, 162 x 122, 202 x 122 – 302 x 232	for retrofitting the enclosure cover to a hinged door, 2 hinges incl. fixing elements		C 71 00 142	
⑤ Security kit	84 x 82 – 162 x 82	for use with lead tags, each 1 set		C 71 00 128	
	162 x 122 – 302 x 232			C 71 00 138	
⑥ Screw	for all case sizes	ø 3.9 x 9 mm, for mounting DIN rails, mounting plates, PCBs etc., 1 pc.		C 71 00 167	

\*1 max. dim. keypad see our website [www.okw.com](http://www.okw.com)



## SNAPTEC

SNAPTEC	Outside dim. in mm L W H	Version / Equipment (dim. in mm) max. dim. keypad	Material	Part-No. light grey, RAL 7035
60 x 60	60 60 40	49.10 x 29.70	ABS (UL 94 HB)	C 30 06 061
60 x 100	60 100 40	49.10 x 69.80	ABS (UL 94 HB)	C 30 06 101
100 x 100	100 100 80	90.10 x 69.80	ABS (UL 94 HB)	C 30 10 101



## SNAPTEC ACCESSORIES

Article	For SNAPTEC	Version / Application	Part-No.
① Wall mounting brackets	for all case sizes	for exterior wall mounting, including 4 fixing elements	C 22 99 028

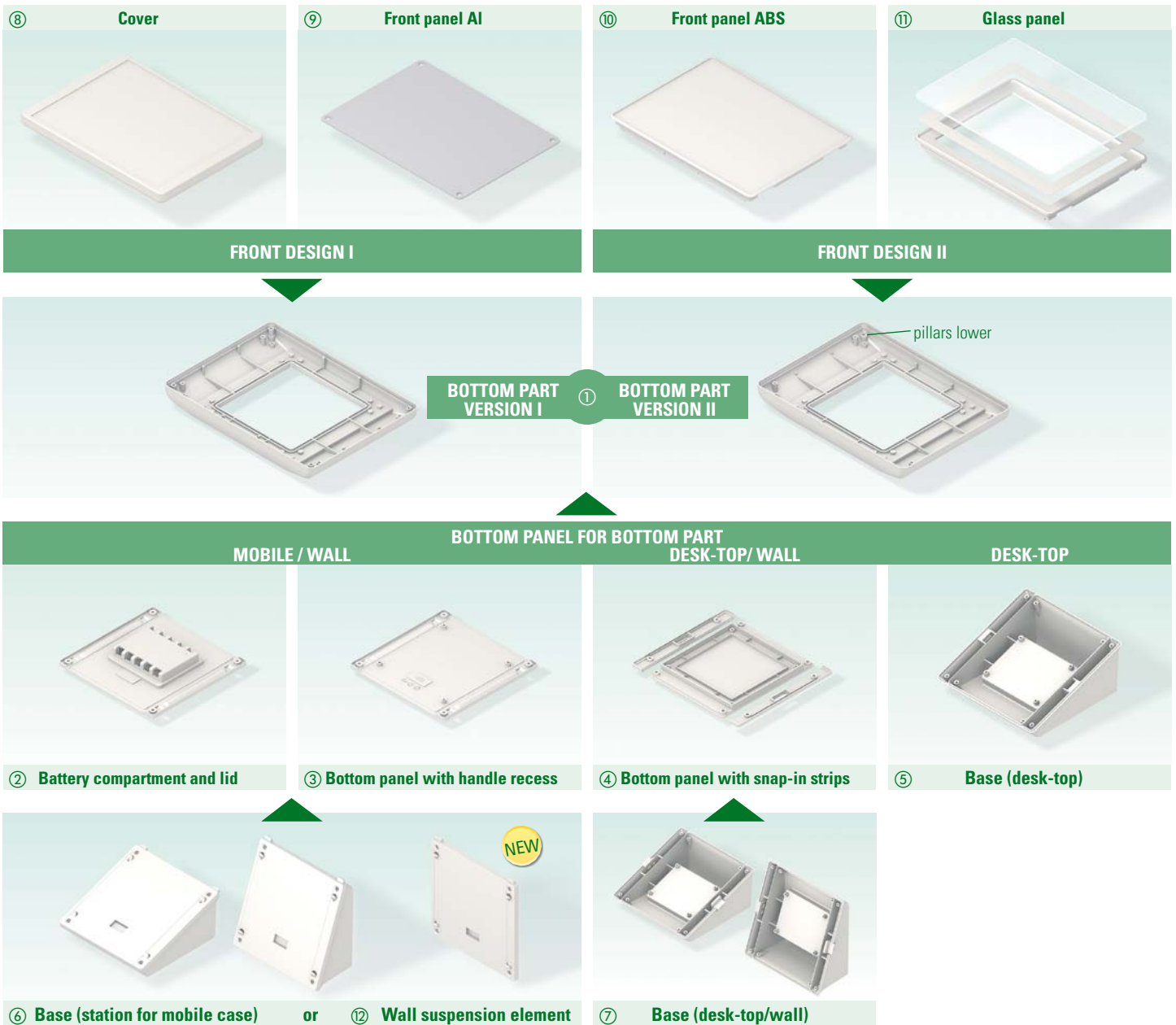


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## SYSTEM COMPONENTS



## YOUR APPLICATION / MINIMUM COMPONENTS REQUIRED

Mobile with battery compartment 5 x AA.

① ② ①

Mobile without battery compartment.

① ③ ①

Mobile with station and battery compartment 5 x AA. Contacts as accessory.

① ② ⑥ ①

Mobile with station without battery compartment.

① ③ ⑥ ①

Mobile with battery compartment 5 x AA and wall suspension element as base. Also ideal for flat wall applications.

Contacts as accessory.

① ② ⑫ ①

Mobile without battery compartment and wall suspension element as base. Also ideal for flat wall applications.

① ③ ⑫ ①

Desk-top / Wall.

Case snaps into base. If required, unit can be secured by latch lock.

① ④ ⑦ ①

Installation.

For the installation in walls, in front panels, machines or systems.

① ④ ⑫ ①

(④ not strictly necessary)

Desk-top.

Case screwed to base.

① ⑤ ①

① choice of front designs (separate article ⑧ - ⑪)

**Note:** Assembly of the operating panel vertically or horizontally, depending on the application; when deciding on the assembly orientation, take account of the battery compartment (②) / bottom panel (③, ④), see assembly instruction on our website [www.okw.com](http://www.okw.com).

## INTERFACE-TERMINAL

Enclosure (for the difference between vers. I and II see front design options) ABS (UL 94 HB), off-white RAL 9002, dim. in mm (L x W x H)	Part-No. INTERFACE-TERMINAL S		Part-No. INTERFACE-TERMINAL M		Part-No. INTERFACE-TERMINAL L	
	I	II	I	II	I	II
① Bottom part flat	B 40 42 707 (135 x 190 x 24.5)	B 40 42 717 (135 x 190 x 24.5)	B 40 44 707 (165 x 225 x 25.5)	B 40 44 717 (165 x 225 x 25.5)	B 40 46 707 (195 x 275 x 26.5)	B 40 46 717 (195 x 275 x 26.5)
<b>NEW</b> ① Bottom part high	B 40 42 757 (135 x 190 x 34.5)	B 40 42 767 (135 x 190 x 34.5)	B 40 44 757 (165 x 225 x 35.5)	B 40 44 767 (165 x 225 x 35.5)	B 40 46 757 (195 x 275 x 36.5)	B 40 46 767 (195 x 275 x 36.5)
<b>Bottom panel for bottom part required depending on the application</b> ABS (UL 94 HB), off-white, dim. in mm (L x W x H)	S		M		L	
② Battery compartment and lid, contacts tin-plated 5 x AA	B 41 42 047		B 41 44 047		B 41 46 047	
③ Bottom panel with handle recess	B 41 42 167		B 41 44 167		B 41 46 167	
④ Bottom panel with snap-in strips	B 41 42 257		B 41 44 257		B 41 46 257	
⑤ Base (desk-top) with covers, for combinations with open bottom part ① (for screw-type connection*1)	B 40 42 827 (123 x 123 x 53)		B 40 44 827 (153 x 153 x 63)		B 40 46 827 (183 x 183 x 73)	
⑥ Base (station for mobile case) with base covers, for combinations ① with ② or ③ (for hanging in position/snap-in connection*2)	B 40 42 837 123 x 123 x 60		B 40 44 837 153 x 153 x 70		B 40 46 837 (183 x 183 x 80)	
⑦ Base (desk-top/wall) with clips and latch-lock, for combination ① with ④ (snap-in connection)	B 40 42 847 (123 x 123 x 53)		B 40 44 847 (153 x 153 x 63)		B 40 46 847 (183 x 183 x 73)	
⑫ Wall suspension element with snap-in connection, for combinations ① with ② or ③, not suitable for case with base <b>NEW</b>	B 41 42 247		B 41 44 247		B 41 46 247	

Front design	suitable for bottom part S		suitable for bottom part M		suitable for bottom part L	
	I	II	I	II	I	II
⑧ Cover ABS (UL 94 HB), off-white RAL 9002 outside dim. in mm max. dim. keypad in mm	B 40 42 407 135 x 190 x 12 123 x 162	–	B 40 44 407 165 x 225 x 12 153 x 197	–	B 40 46 407 195 x 275 x 12 183 x 247	–
⑨ Front panel Al, matt anodised outside dim. in mm	B 41 42 106 131.5 x 186.5 x 2	–	B 41 44 106 161.5 x 221.5 x 2	–	B 41 46 106 191.5 x 271.5 x 2	–
⑩ Front panel ABS (UL 94 HB), off-white RAL 9002 outside dim. in mm max. dim. keypad in mm	–	B 41 42 107 131.7 x 186.7 x 3 184.0 x 128.9	–	B 41 44 107 161.7 x 221.7 x 3 218.8 x 158.7	–	B 41 46 107 191.7 x 271.7 x 3 269.0 x 188.8
⑪ Glass panel without printing*3 outside dim. in mm	–	B 41 42 203 128.7 x 183.7 x 4	–	B 41 44 203 158.7 x 218.7 x 4	–	B 41 46 203 188.7 x 268.7 x 4

## INTERFACE-TERMINAL ACCESSORIES

Article	S	M	L
⑬ Contact, male for ⑥, 6-pole*1 Contact, female for ② or ③, 6-pole*1	A 91 78 007 A 91 78 008	A 91 78 007 A 91 78 008	A 91 78 007 A 91 78 008
⑭ Sealing, bottom part - front	B 41 42 005	B 41 44 005	B 41 46 005
⑮ Sealing, bottom part - base/bottom panel/battery comp.	B 41 42 006	B 41 44 006	B 41 46 006
⑯ Sealing, base - base cover (⑥)	B 41 42 006	B 41 44 006	B 41 46 006
⑰ Installation assembly kit "flat"*4 off-white, RAL 9002 individual colour of your choice (lacquering) with standard decor of your choice (water transfer printing)	<b>NEW</b> B 41 42 587 B 41 42 58L B 41 42 58W	B 41 44 587 B 41 44 58L B 41 44 58W	B 41 46 587 B 41 46 58L B 41 46 58W
⑱ Installation assembly kit "high"*4 off-white, RAL 9002 individual colour of your choice (lacquering) with standard decor of your choice (water transfer printing)	<b>NEW</b> B 41 42 597 B 41 42 59L B 41 42 59W	B 41 44 597 B 41 44 59L B 41 44 59W	B 41 46 597 B 41 46 59L B 41 46 59W



\*1 holes required, for assembly instruction please refer to our website [www.okw.com](http://www.okw.com)





\*2 snap-in installation advisable for wall mounted use and for use of contacts (accessories)

\*3 kit with adhesive foil and mounting frame; display window with individual printing adapted to your visible display cutout as well as to cover the area of adhesive foil, on demand.

\*4 for the installation of the enclosure in walls, in front panels, machines or systems; holders suitable for bottom part "flat" / "high" (can only be used in conjunction with bottom panel ④ or open rear side of enclosure); push on design frame – suitable for front designs I and II; assembly instruction on our website [www.okw.com](http://www.okw.com); if you wish an individual colour or standard decor please let us know your required colour resp. standard decor (see our website [www.okw.com](http://www.okw.com))



## DATEC-TERMINAL

DATEC-TERMINAL	Outside dim. in mm			Version / Equipment cutouts for	sep. terminal comp.	Material	Part-No. off-white, RAL 9002		
	L	W	H						
	S	180	130	86	–	–	–	ABS (UL 94 HB)	B 40 13 117
	SL	180	264	86	–	–	–	ABS (UL 94 HB)	B 40 26 117
	M	272	168	101	I	–	•	ABS (UL 94 HB)	B 40 16 117
		272	168	101	II* <sup>1</sup>	hinge, quick-action lock	•	ABS (UL 94 HB)	B 40 16 217
		272	168	101	III* <sup>1</sup>	hinge, quick-action lock, keylock	•	ABS (UL 94 HB)	B 40 16 317
	L	272	302	101	I	–	•	ABS (UL 94 HB)	B 40 30 117
		272	302	101	II* <sup>1</sup>	hinge, quick-action lock	•	ABS (UL 94 HB)	B 40 30 217
		272	302	101	III* <sup>1</sup>	hinge, quick-action lock, keylock	•	ABS (UL 94 HB)	B 40 30 317

## Supply:

DATEC-TERMINAL S/SL: 1 basic housing. 1 sealing. 4 screws for the PCB fixing. 4 non-slip feet.

DATEC-TERMINAL M/L: 1 basic housing. 1 sealing kit. 4 screws for the PCB fixing. 4 non-slip feet.

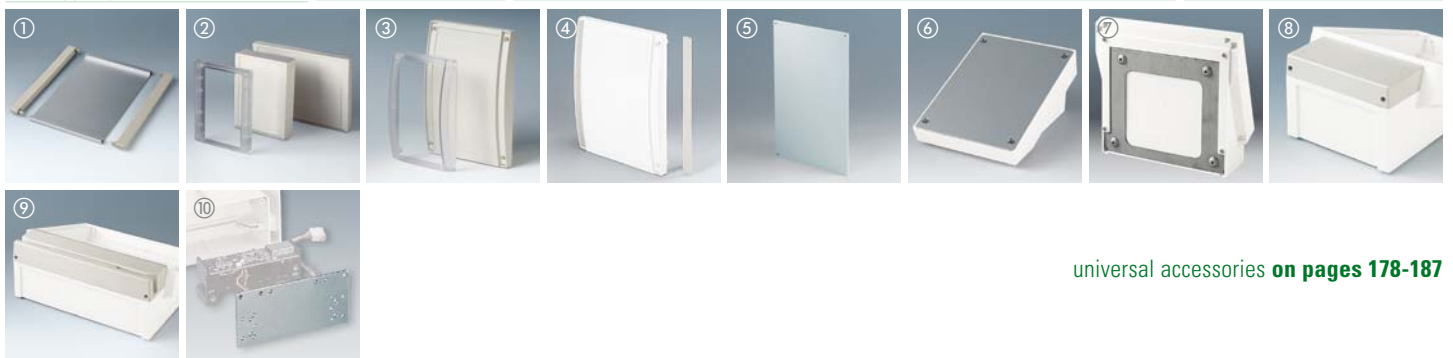
Version II additionally with hinge and quick-action lock. Version III additionally with hinge, quick-action lock and keylock.

\*<sup>1</sup> the openings of versions II and III are on the right side of the wall mounting case and on the left side of the desktop unit (shown from the view)

## DATEC-TERMINAL ACCESSORIES

Article	For basic housing DATEC-TERMINAL	Version / Application	Part-No.	
① Profile plate	S	profile plate extruded aluminium 2.4 mm, cover strips ABS, pebble grey, RAL 7032	B 41 13 126	
	SL	profile plate extruded aluminium 2.4 mm, cover strips ABS, pebble grey, RAL 7032	B 41 26 126	
	M	profile plate extruded aluminium 2.7 mm, cover strips ABS, pebble grey, RAL 7032	B 41 16 126	
	L	profile plate extruded aluminium 2.7 mm, cover strips ABS, pebble grey, RAL 7032	B 41 30 126	
② Cover screw fixed from the underside	S	provides IP 54, max. dim. keypad 100.50 x 157.90 mm	B 40 13 617	B 40 13 621
	SL	provides IP 54, max. dim. keypad 234.30 x 158.50 mm	B 40 26 617	B 40 26 621
	M	flat, provides IP 54*2, max. dim. keypad 195.10 x 129.20 mm	B 40 16 617	B 40 16 621
	M	high, provides IP 54*2, max. dim. keypad 194.90 x 128.90 mm	B 40 16 657	–
	L	flat, provides IP 54*2, max. dim. keypad 195.10 x 262.50 mm	B 40 30 617	B 40 30 621
	L	high, provides IP 54*2, max. dim. keypad 194.90 x 262.90 mm	B 40 30 657	–
③ Cover convex screw fixed from the front (cover strips necessary)	S*3	provides IP 54, max. dim. keypad 97.90 x 159.70 mm	B 40 13 637	–
	SL*3	provides IP 54, max. dim. keypad 231.00 x 159.60 mm	B 40 26 637	–
	M	provides IP 54*2, max. dim. keypad 203.20 x 128.80 mm	B 40 16 637	B 40 16 631
	L	provides IP 54*2, max. dim. keypad 203.10 x 262.70 mm	B 40 30 637	B 40 30 631
④ Cover strip	cover convex S, SL	PC, transparent for colour coding*4, 1 pc	B 41 13 671	
		ABS, off-white, RAL 9002, 1 pc	B 41 13 677	
	cover convex M, L	PC, transparent for colour coding*4, 1 pc	B 40 16 671	
		ABS, off-white, RAL 9002, 1 pc	B 40 16 677	
⑤ Front panel H	M with ② / ③	matt anodised, aluminium, 209 x 128 x 2 mm	B 41 16 116	
	L with ② / ③	matt anodised, aluminium, 209 x 262 x 2 mm	B 41 30 116	
⑥ Front panel S	S	matt anodised, aluminium, 176 x 125.9 x 2 mm	B 41 13 106	
	SL	matt anodised, aluminium, 176 x 259.4 x 2 mm	B 41 26 106	
	M	matt anodised, aluminium, 217.4 x 165.4 x 2 mm	B 41 16 106	
	L	matt anodised, aluminium, 217.4 x 299.4 x 2 mm	B 41 30 106	
⑦ Wall suspension element	S	galvanised sheet steel, removal secured by 2 holes in bottom (machining required)	B 41 13 147	
	SL	galvanised sheet steel, removal secured by 2 holes in bottom (machining required)	B 41 26 147	
	M	galvanised sheet steel, securing by 2 screws in the terminal compartment	B 41 16 147	
	L	galvanised sheet steel, securing by 2 screws in the terminal compartment	B 41 30 147	
⑧ Lid closed (Installation of pocket scanners see footnote*5)	M	flat, ABS, off-white, RAL 9002, to cover up the terminal compartment	B 40 16 417	
	M	high, ABS, off-white, RAL 9002, to cover up the terminal compartment	B 40 16 457	
	L	flat, ABS, off-white, RAL 9002, to cover up the terminal compartment	B 40 30 417	
⑨ Lid with card slot one piece	M	ABS, off-white, for mounting of pull-through reading devices*6	B 40 16 917	
	L	ABS, off-white, for mounting of pull-through reading devices*6	B 40 30 917	
⑩ Support plate	M, L	designed for mounting types of card readers/scanners to the one-piece lid with slot	B 41 16 136	

ABS, off-white | PC, transparent



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\*2 protection class IP 54 only in combination with cover and closed lid or lid with slot consisting of several parts

\*3 screw access from the front; alternatively, lock and hinge may be installed (separate articles, see universal accessories page 178)

\*4 this is quick and easy, with strips of coloured paper under the transparent cover strips (not included in the supply)



\*5 installation of push-in scanner systems possible on magnetic, inductive and chip card basis, see our website. Additional machining required

\*6 installation of pull-in scanners for magnetic and bar code cards, see our website; support plate (⑩) and additional machining required



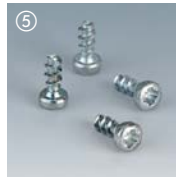


## COMTEC

COMTEC	Outside dim. in mm W D H	Version / Equipment (dim. in mm)		Material	Part-No.					
		battery compartment	max. dim. keypad		off-white RAL 9002	black RAL 9005				
	120 F	120	150	20/42.8	I	–	87.85 x 109.85	ABS (UL 94 HB)	A 06 12 007	A 06 12 009
	120 H	120	150	40/62.8	I	–	87.85 x 109.85	ABS (UL 94 HB)	A 06 12 107	A 06 12 109
	150 F	150	200	20/51.5	I	–	117.85 x 159.80	ABS (UL 94 HB)	A 06 15 007	A 06 15 009
		150	200	20/51.5	II	• (see accessory)	117.85 x 159.80	ABS (UL 94 HB)	A 06 15 017	A 06 15 019
	150 H	150	200	40/71.5	I	–	117.85 x 159.80	ABS (UL 94 HB)	A 06 15 107	A 06 15 109
		150	200	40/71.5	II	• (see accessory)	117.85 x 159.80	ABS (UL 94 HB)	A 06 15 117	A 06 15 119
	200 F	200	150	20/42.8	I	–	167.75 x 109.85	ABS (UL 94 HB)	A 06 20 007	A 06 20 009
		200	150	20/42.8	II	• (see accessory)	167.75 x 109.85	ABS (UL 94 HB)	A 06 20 017	A 06 20 019
200 H	200	150	40/62.8	I	–	167.75 x 109.85	ABS (UL 94 HB)	A 06 20 107	A 06 20 109	
	200	150	40/62.8	II	• (see accessory)	167.75 x 109.85	ABS (UL 94 HB)	A 06 20 117	A 06 20 119	
	290 H	290	200	44/75.5	I	–	257.85 x 159.80	ABS (UL 94 HB)	A 06 29 107	A 06 29 109

## COMTEC ACCESSORIES

Article	For COMTEC	Version / Application	Part-No.
① Battery cradle kit	150 F/H, 200 F/H	ABS, off-white, for 4 x 1.5 V mignon cells (AA), battery clips nickel-plated*1	A 93 45 217
② Battery cradle	150 F/H, 200 F/H	ABS, off-white, for 1 x 9 V flat battery (PP3)	A 91 74 003
	150 F/H, 200 F/H	ABS, off-white, for 2 x 9 V flat battery (PP3)	A 91 74 002
③ Set of battery clips	150 F/H, 200 F/H	tin-plated, for 1 x 9 V flat battery (PP3)	A 91 74 006
	150 F/H, 200 F/H	tin-plated, for 2 x 9 V flat battery (PP3)	A 91 61 002
④ Plug-in contact	150 F/H, 200 F/H	for 1 x 9 V flat battery (PP3)	A 91 60 003
⑤ Set of screws	all sizes	4 x ø 2.5 x 6 mm, for mounting PCBs	A 91 99 008






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\*1 complies with DIN EN 60601 (short circuit caused by incorrect insertion of batteries impossible)



## DESK CASE

DESK CASE	Outside dim. in mm			Equipment (dim. in mm)		Colour bottom part/top part	Material	Part-No.
	W	D	H	front panel	max. dim. keypad			
 138	138	190	54/32	–	119.70 x 166.20 (r = 4)	off-white, RAL 9002	ABS (UL 94 HB)	A 05 14 007
	138	190	54/32	–	119.70 x 166.20 (r = 4)	black, RAL 9005	ABS (UL 94 HB)	A 05 14 009
 190	190	138	47/32	–	171.50 x 116.10 (r = 4)	off-white, RAL 9002	ABS (UL 94 HB)	A 05 19 007
	190	138	47/32	–	171.50 x 116.10 (r = 4)	black, RAL 9005	ABS (UL 94 HB)	A 05 19 009
 190 F	190	138	47/31.5	• (accessory) –		pebble grey/off-white	ABS (UL 94 HB)	A 90 86 265
 190 H	190	138	70/54.5	• (accessory) –		pebble grey/off-white	ABS (UL 94 HB)	A 90 86 365
220	220	156	100/52	• (accessory) –		pebble grey/off-white	ABS (UL 94 HB)	A 90 82 065

## COMBI DESK CASE

COMBI DESK CASE	Outside dim. in mm			Equipment		Colour bottom/top part, attachment	Material	Part-No.
	W	D	H	front panel	attachment			
 F	228	216	76/50	• (accessory) –		pebble grey/off-white	ABS (UL 94 HB)	A 90 84 165
	H	228	216	126/50	• (accessory) • (clip into)		pebble grey/off-white	ABS (UL 94 HB)

## DESK CASE ACCESSORIES

Article	For enclosure type	Version / Application	Part-No.
① Front panel	190 F, 190 H	matt anodised aluminium 161.5 x 106 x 1.5 mm (screws supplied with case)	A 91 86 001
	220	matt anodised aluminium 205.5 x 129.4 x 1.5 mm (screws supplied with case)	A 91 80 001
	F, H	matt anodised aluminium 200 x 130 x 1.5 mm (screws supplied with case)	A 91 84 001
	H (attachment)	matt anodised aluminium 200 x 35 x 1.5 mm (screws supplied with case)	A 91 85 001




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# DATEC-KEYBOARD

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## DATEC-KEYBOARD

DATEC-KEYBOARD	Outside dim. in mm W D H	Equipment (dim. in mm) max. dim. keypad		Material	Part-No.		
		feet			off-white RAL 9002	black RAL 9005	
	S	340 240 40	309.20 x 165.40	•	ABS (UL 94 HB)	A 05 34 107	A 05 34 109
	L	490 240 40	459.00 x 165.40	•	ABS (UL 94 HB)	A 05 49 107	A 05 49 109

## DATEC-KEYBOARD ACCESSORIES


Article	Version / Application	Part-No.	
		S	L
Sealing kit	for sealing up to IP 65, 1 O-ring for the case	A 91 34 001	A 91 49 001

# KEYBOARD HOUSING

Information on page 62



## KEYBOARD HOUSING

KEYBOARD HOUSING	Outside dim. in mm W D H	Version / Equipment (dim. in mm) with deposit groove		Material	Part-No.	
					off-white, RAL 9002	
	370	I	338 x 25	ABS (UL 94 HB)	A 05 37 407	
		II	–	ABS (UL 94 HB)	A 05 37 007	

universal accessories on pages 178-187



## UNITEC

UNITEC	Outside dim. in mm			Equipment (dim. in mm)				Part-No.			
	W	D	H	recess front part	recess top part	max. dim. keypad front part	max. dim. keypad top part	without battery comp.	for 3 x AA*1	for 5 x AA*1	
	S	125	177	69/22	0.6	0.6	–	–	B 40 54 107	B 40 54 207	B 40 54 307
		125	177	69/22	1.4	1.4	108.4 x 49.5	108.4 x 149	B 40 54 117	B 40 54 217	B 40 54 317
		125	177	69/22	1.4	0.6	108.4 x 49.5	–	B 40 54 127	B 40 54 227	B 40 54 327
		125	177	69/22	0.6	1.4	–	108.4 x 149	B 40 54 137	B 40 54 237	B 40 54 337
	M	148	210	80/25	0.6	0.6	–	–	B 40 56 107	B 40 56 207	B 40 56 307
		148	210	80/25	1.4	1.4	127.6 x 58.6	127.6 x 178.6	B 40 56 117	B 40 56 217	B 40 56 317
		148	210	80/25	1.4	0.6	127.6 x 58.6	–	B 40 56 127	B 40 56 227	B 40 56 327
		148	210	80/25	0.6	1.4	–	127.6 x 178.6	B 40 56 137	B 40 56 237	B 40 56 337

## UNITEC ACCESSORIES

Article	For UNITEC	Version / Application	Part-No.
① Wall suspension element	S	ABS, off-white, 1 set	B 41 54 307
	M	ABS, off-white, 1 set	B 41 56 307
② Non-slip pads	S, M	ø 12 mm, transparent, self-adhesive, for desk-top applications, 1 pair	A 92 12 330
③ Self-tapping screw	S, M	ø 3 x 6 mm (PZ1) for mounting PCBs, 1 pc	A 03 06 031






universal accessories on pages 178-187

\*1 battery compartment lid snap-in and/or screw-on; battery clips nickel-plated





## SHELL-TYPE CASES

SHELL-TYPE CASE	Outside dim. in mm			Version / Equipment (dim. in mm)			Material	Part-No. off-white RAL 9002	
	L	W	H	battery comp.	max. dim. keypad	max. size of PCB*1			
 V 85 V 110	85	45	22	I	—	71 x 38 / 71 x 38	ABS (UL 94 HB)	A 94 04 333	
	114	72	33	I	—	99 x 54 / 99 x 54	ABS (UL 94 HB)	A 94 06 333	
	114	72	45	I	—	99 x 54 / 98 x 54	ABS (UL 94 HB)	A 94 06 343	
	114	72	57	I	—	69 x 54 / 99 x 54	ABS (UL 94 HB)	A 94 06 443	
	114	72	33	II*2	1 x 9 V	69 x 54 / 98 x 54	ABS (UL 94 HB)	A 94 06 334	
	114	72	45	II*2	1 x 9 V	69 x 54 / 98 x 54	ABS (UL 94 HB)	A 94 06 344	
V 155	158	95	33	I	—	143 x 77 / 143 x 77	ABS (UL 94 HB)	A 94 08 333	
	158	95	45	I	—	143 x 77 / 142 x 77	ABS (UL 94 HB)	A 94 08 343	
	158	95	57	I	—	142 x 77 / 142 x 77	ABS (UL 94 HB)	A 94 08 443	
	158	95	33	V*3	4 x AA / 2 x 9 V	83 x 77 / 143 x 77	ABS (UL 94 HB)	A 94 08 638	
	158	95	45	V*3	4 x AA / 2 x 9 V	83 x 77 / 142 x 77	ABS (UL 94 HB)	A 94 08 648	
	158	95	33	IV*4	2 x AA / 1 x 9 V	113 x 77 / 143 x 77	ABS (UL 94 HB)	A 94 08 336	
V 190	158	95	45	IV*4	2 x AA / 1 x 9 V	113 x 77 / 142 x 77	ABS (UL 94 HB)	A 94 08 346	
	190	138	45	I	—	174 x 118 / 174 x 118	ABS (UL 94 HB)	A 94 13 333	
	190	138	68	I	—	174 x 118 / 173 x 118	ABS (UL 94 HB)	A 94 13 343	
	190	138	91	I	—	174 x 118 / 173 x 118	ABS (UL 94 HB)	A 94 13 443	
	190	138	45	V*3	4 x AA / 2 x 9 V	114 x 118 / 174 x 118	ABS (UL 94 HB)	A 94 13 638	
	190	138	68	V*3	4 x AA / 2 x 9 V	114 x 118 / 173 x 118	ABS (UL 94 HB)	A 94 13 648	
 O 155	158	95	33	I	—	142 x 77 / 142 x 77	ABS (UL 94 HB)	A 94 08 330	
	158	95	45	I	—	142 x 77 / 142 x 77	ABS (UL 94 HB)	A 94 08 340	
	158	95	57	I	—	142 x 77 / 142 x 77	ABS (UL 94 HB)	A 94 08 440	
O 190	190	138	45	I	—	173 x 118 / 173 x 118	ABS (UL 94 HB)	A 94 13 330	
	190	138	68	I	—	173 x 118 / 173 x 118	ABS (UL 94 HB)	A 94 13 340	
	190	138	91	I	—	173 x 118 / 173 x 118	ABS (UL 94 HB)	A 94 13 440	
 G 85	85	45	22	I	—	76 x 38 / 75 x 38	ABS (UL 94 HB)	A 94 04 331	
	85	45	33	I	—	76 x 38 / 75 x 37	ABS (UL 94 HB)	A 94 04 341	
	85	45	45	I	—	75 x 37 / 75 x 37	ABS (UL 94 HB)	A 94 04 441	
G 110	114	72	33	I	—	104 x 54 / 104 x 54	ABS (UL 94 HB)	A 94 06 331	
	114	72	33.5	I	—	101.90 x 59.90	104 x 54 / 104 x 54	ABS (UL 94 HB)	A 94 06 351
	114	72	45	I	—	—	104 x 54 / 103 x 54	ABS (UL 94 HB)	A 94 06 341
	114	72	57	I	—	—	103 x 54 / 103 x 54	ABS (UL 94 HB)	A 94 06 441
	114	72	33	II*2	1 x 9 V	—	75 x 54 / 104 x 54	ABS (UL 94 HB)	A 94 06 332
	114	72	33.5	II*2	1 x 9 V	101.90 x 59.90	75 x 54 / 104 x 54	ABS (UL 94 HB)	A 94 06 352
G 155	114	72	45	II*2	1 x 9 V	—	75 x 54 / 103 x 54	ABS (UL 94 HB)	A 94 06 342
	158	95	33	I	—	—	149 x 77 / 149 x 77	ABS (UL 94 HB)	A 94 08 331
	158	95	33.5	I	—	144.40 x 81.40	149 x 77 / 149 x 77	ABS (UL 94 HB)	A 94 08 351
	158	95	45	I	—	—	149 x 77 / 147 x 77	ABS (UL 94 HB)	A 94 08 341
	158	95	57	I	—	—	148 x 77 / 147 x 77	ABS (UL 94 HB)	A 94 08 441
	158	95	33	V*3	4 x AA / 2 x 9 V	—	88 x 77 / 149 x 77	ABS (UL 94 HB)	A 94 08 737
	158	95	33.5	V*3	4 x AA / 2 x 9 V	144.40 x 81.40	88 x 77 / 149 x 77	ABS (UL 94 HB)	A 94 08 757
	158	95	45	V*3	4 x AA / 2 x 9 V	—	88 x 77 / 147 x 77	ABS (UL 94 HB)	A 94 08 747
	158	95	33	IV*4	2 x AA / 1 x 9 V	—	119 x 77 / 149 x 77	ABS (UL 94 HB)	A 94 08 335
	158	95	33.5	IV*4	2 x AA / 1 x 9 V	144.40 x 81.40	119 x 77 / 149 x 77	ABS (UL 94 HB)	A 94 08 355
	158	95	45	IV*4	2 x AA / 1 x 9 V	—	119 x 77 / 148 x 77	ABS (UL 94 HB)	A 94 08 345
	G 190	190	138	45	I	—	—	180 x 118 / 180 x 118	ABS (UL 94 HB)
190		138	45.5	I	—	172.00 x 120.00	180 x 118 / 180 x 118	ABS (UL 94 HB)	A 94 13 351
190		138	68	I	—	—	180 x 118 / 179 x 118	ABS (UL 94 HB)	A 94 13 341
190		138	91	I	—	—	180 x 118 / 179 x 118	ABS (UL 94 HB)	A 94 13 441
190		138	45	V*3	4 x AA / 2 x 9 V	—	120 x 118 / 180 x 118	ABS (UL 94 HB)	A 94 13 737
190		138	45.5	V*3	4 x AA / 2 x 9 V	172.00 x 120.00	120 x 118 / 180 x 118	ABS (UL 94 HB)	A 94 13 757
190		138	68	V*3	4 x AA / 2 x 9 V	—	120 x 118 / 179 x 118	ABS (UL 94 HB)	A 94 13 747

V = Open front, closed rear.

O = Open front, open rear.

G = Closed front, closed rear.

\*1 cutouts for pillars not taken into consideration; PCB mounting in base / top

\*2 plug-in contact for 1 x 9 V flat battery see accessories

\*3 set of battery clips for 4 x AA and plug-in contact for 1 x 9 V flat battery see accessories

\*4 set of battery clips for 2 x AA and plug-in contact for 1 x 9 V flat battery see accessories



## SHELL-TYPE CASES ACCESSORIES




Article	Version / Application	For SHELL-TYPE CASE	Part-No.	
① Set of battery clips  complies with DIN EN 60601 (short circuit caused by incorrect insertion of batteries is avoided)	nickel-plated, for 2 x 1.5 V mignon cells (AA) (As alternatives to conventional, tin-plated battery clips 1 x A9193003 and 2 x A9193004 see universal accessories page 182)	V, G 155 version IV	A 91 90 014	
	nickel-plated, for 4 x 1.5 V mignon cells (AA) (As alternatives to conventional, tin-plated battery clips 3 x A9193003 and 2 x A9193004 see universal accessories page 182)	V, G 155, 190 version V	A 91 90 013	
② Plug-in contact	for 1 x 9 V flat battery (PP3)	V, G 155, 190 vers. IV, V	A 91 60 003	
③ Ring eyelet	plastic, volcano, inside ring ø 2.5 mm, max. wall thickness 3 mm, location hole ø 4 mm required	V, O, G 85	A 91 00 001	
	plastic, volcano, inside ring ø 4 mm, max. wall thickness 4 mm, location hole ø 5 mm required	V, O, G 110, 155	A 91 00 002	
④ Sealing kit	protection class up to IP 65 for cases type G (closed front and rear and without battery compartment), 1 O-ring for the case, 4 rubber disks for sealing between the assembly pillars	G 85	A 91 04 250	
		G 110	A 91 06 352	
		G 155	A 91 08 486	
		G 190	A 91 13 630	
⑤ Contact strips	aluminium strips which provide additional electrical continuity between the top and base shells of shielded cases (order two pieces, one for each side), cases with al-metallisation on request	V, G 85	A 91 04 073	
		V, G 110	A 91 06 095	
		V, O, G 155	A 91 08 120	
		V, O, G 190	A 91 13 150	
⑥ Wall mounting brackets* <sup>5</sup>	PA, pebble grey, RAL 7032, for exterior wall mounting, fastening to the case by means of the case fixing screws, 4 pcs	V, O, G 110, 155, 190	A 92 04 108	
⑦ Front / rear panel for SHELL-TYPE CASE V and O (1 piece)	Dim. in mm	For SHELL-TYPE CASE	Part-No. Al matt anodised	PMMA (plexiglass®)
	36.0 x 14.6 x 1	A 94 04 33.	A 91 04 111	A 91 04 113
	59.3 x 25.0 x 1	A 94 06 33.	A 91 07 111	A 91 06 113
	59.3 x 37.0 x 1	A 94 06 34.	A 91 07 121	A 91 06 123
	59.3 x 49.0 x 1	A 94 06 44.	A 91 07 221	A 91 06 223
	81.9 x 23.6 x 1	A 94 08 33. / A 94 08 63.	A 91 09 111	A 91 08 113
	81.9 x 35.6 x 1	A 94 08 34. / A 94 08 64.	A 91 09 121	A 91 08 123
	81.9 x 47.6 x 1	A 94 08 44.	A 91 09 221	A 91 08 223
	124.2 x 33.6 x 1.5	A 94 13 33. / A 94 13 63.	A 91 14 111	A 91 13 113
	124.2 x 56.6 x 1.5	A 94 13 34. / A 94 13 64.	A 91 14 121	A 91 13 123
124.2 x 79.6 x 1.5	A 94 13 44.	A 91 14 221	A 91 13 223	



universal accessories on pages 178-187

\*<sup>5</sup> alternatively, wall suspension element may be installed; see universal accessories page 178

## MOTEC

MOTEC	Outside dim. in mm			Version / Equipment (dim. in mm)		Part-No.		
	W	D	H	case shells base/top	handle bar*1	ABS (UL 94 HB) off-white RAL 9002	ABS (UL 94 V-0) off-white RAL 9002	
	S	155	105	40	flat / flat	–	B 30 15 117	B 30 15 217
		155	105	65	flat / high	–	B 30 15 127	B 30 15 227
		155	105	90	high / high	–	B 30 15 137	B 30 15 237
	M	205	140	50	flat / flat	–	B 30 20 117	B 30 20 217
		205	140	75	flat / high	–	B 30 20 127	B 30 20 227
		205	140	75	flat / high	• (Tilt/swivel handle adjustable in increments 30°)	B 30 20 147	–
		205	140	100	high / high	–	B 30 20 137	B 30 20 237
	L	235	165	60	flat / flat	–	B 30 23 117	B 30 23 217
		235	165	85	flat / high	–	B 30 23 127	B 30 23 227
		235	165	85	flat / high	• (Tilt/swivel handle adjustable in increments 30°)	B 30 23 147	–
		235	165	110	high / high	–	B 30 23 137	B 30 23 237

## MOTEC ACCESSORIES

Article	For MOTEC	Version / Application	Part-No.	
			ABS (UL 94 HB)	ABS (UL 94 V-0)
① Sloping control panel	S	flat / high	off-white, RAL 9002, max. dim. keypad 137.80 x 46.80 mm, insertion into the guides	
	M	flat / high	off-white, RAL 9002, max. dim. keypad 186.70 x 54.40 mm, insertion into the guides	
	L	flat / high	off-white, RAL 9002, max. dim. keypad 214.70 x 62.90 mm, insertion into the guides	
	L	high / high	off-white, RAL 9002, max. dim. keypad 214.60 x 90.60 mm, insertion into the guides	
② Front / rear panel	S	flat / flat	matt anodised aluminium, 136 x 32 x 1.5 mm, insertion into the guides, 1 pc	
	S	flat / high	matt anodised aluminium, 136 x 57 x 1.5 mm, insertion into the guides, 1 pc	
	S	high / high	matt anodised aluminium, 136 x 82 x 1.5 mm, insertion into the guides, 1 pc	
	M	flat / flat	matt anodised aluminium, 185 x 42 x 1.5 mm, insertion into the guides, 1 pc	
	M	flat / high	matt anodised aluminium, 185 x 67 x 1.5 mm, insertion into the guides, 1 pc	
	M	high / high	matt anodised aluminium, 185 x 92 x 1.5 mm, insertion into the guides, 1 pc	
	L	flat / flat	matt anodised aluminium, 214 x 52 x 1.5 mm, insertion into the guides, 1 pc	
	L	flat / high	matt anodised aluminium, 214 x 77 x 1.5 mm, insertion into the guides, 1 pc	
③ Set of screws	L	high / high	matt anodised aluminium, 214 x 102 x 1.5 mm, insertion into the guides, 1 pc	
	S, M, L		4 x ø 2.5 x 6 mm, for mounting PCBs	



universal accessories on pages 178-187

\*1 side arms and push button of reinforced polyamide, middle section aluminium profile;  
the mounting of the handle bar to the side panels with draft will hardly affect the load capacity and performance



## EURO CASE (COMPLETE ENCLOSURES\*1)

EURO CASE	Version ventilation*2	Material, colour	Part-No. EURO CASE 42 TE width = 260 mm, depth = 250 mm			Part-No. EURO CASE 63 TE width = 367 mm, depth = 250 mm		
			height	without handle	with handle	height	without handle	with handle
	1 HE <input type="checkbox"/>	ABS, off-white, RAL 9002	54	A 02 14 070	—	54	A 02 16 070	—
		ABS, off-white, RAL 9002	54	A 02 14 170	—	54	A 02 16 170	—
		ABS, off-white, RAL 9002	54	A 02 14 270	—	54	A 02 16 270	—
	2 HE <input type="checkbox"/>	ABS, off-white, RAL 9002	98.5	A 02 24 070	A 02 24 470	98.5	A 02 26 070	A 02 26 470
		ABS, off-white, RAL 9002	98.5	A 02 24 170	A 02 24 570	98.5	A 02 26 170	A 02 26 570
		ABS, off-white, RAL 9002	98.5	A 02 24 270	A 02 24 670	98.5	A 02 26 270	A 02 26 670
	3 HE <input type="checkbox"/>	ABS, off-white, RAL 9002	143	A 02 34 070	A 02 34 470	143	A 02 36 070	A 02 36 470
		ABS, off-white, RAL 9002	143	A 02 34 170	A 02 34 570	143	A 02 36 170	A 02 36 570
		ABS, off-white, RAL 9002	143	A 02 34 270	A 02 34 670	143	A 02 36 270	A 02 36 670
	6 HE <input type="checkbox"/>	ABS, off-white, RAL 9002				276.5	A 02 66 070	—
		ABS, off-white, RAL 9002				276.5	A 02 66 170	—
		ABS, off-white, RAL 9002				276.5	A 02 66 270	—

## SEPARATE PARTS (FOR INDIVIDUAL COMBINATIONS)

Article	Version / Application	Part-No. 42 TE		Part-No. 63 TE	
		off-white, RAL 9002	pebble grey, RAL 7032	off-white, RAL 9002	pebble grey, RAL 7032
Case shell	ABS	A 01 14 170	—	A 01 16 170	—
Side panel	0.5 HE, ABS	A 01 05 270	A 01 05 280	A 01 05 270	A 01 05 280
	1 HE, ABS	A 01 10 270	A 01 10 280	A 01 10 270	A 01 10 280
	2 HE, ABS	A 01 20 270	A 01 20 280	A 01 20 270	A 01 20 280
	0.5 HE, for handle mounting, ABS	A 01 06 270	A 01 06 280	A 01 06 270	A 01 06 280
	1 HE, for handle mounting, ABS	A 01 11 270	A 01 11 280	A 01 11 270	A 01 11 280
	2 HE, for handle mounting, ABS	A 01 21 270	A 01 21 280	A 01 21 270	A 01 21 280
Snap-in panel	without slots, ABS	A 01 14 370	—	A 01 16 370	—
	with slots, ABS	A 01 24 370	—	A 01 26 370	—
	without slots, with feet, ABS	A 01 34 370	—	A 01 36 370	—
	with slots, with feet, ABS	A 01 44 370	—	A 01 46 370	—
Handle bar*3	off-white, push-button off-white	A 03 44 217		A 03 46 317	
	pebble grey, push-button off-white	A 03 44 218		A 03 46 318	
	off-white, push-button pebble grey	A 03 44 216		A 03 46 316	
Tilt foot	ABS, off-white, snaps into the feet section	A 03 50 007		A 03 50 007	

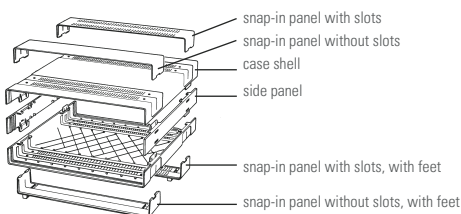
## EURO CASE ACCESSORIES

Article	Version / Application	Part-No. for EURO CASE 42 TE		Part-No. for EURO CASE 63 TE	
		Front / rear panel	matt anodised, Al, R6 1 HE	250.8 x 46.3 x 2	A 03 14 270
	matt anodised, Al, R6 1.5 HE	250.8 x 68.5 x 2	A 03 54 270	—	—
	matt anodised, Al, R6 2 HE	250.8 x 90.7 x 2	A 03 24 270	357.8 x 90.7 x 2	A 03 26 370
	matt anodised, Al, R6 3 HE	250.8 x 135.2 x 2	A 03 34 270	357.8 x 135.2 x 2	A 03 36 370
	matt anodised, Al, R6 6 HE	—	—	357.8 x 268.6 x 2	A 03 66 370

To achieve one 1 EURO CASE from separate parts, for a special combination, please order:

2 case shells, 4 snap-in panels.

If needed: 2 side panels, 1 handle bar, 2 tilt feet, 2 front / rear panels



\*1 front / rear panel and tilt feet must be ordered separately

\*2 ventilation provided with each enclosure (snap-in panel at the base additionally with foot)

version without ventilation slots

version with ventilation slots at rear, top and base





version with ventilation slots at front and rear, top and base

\*3 the adjustment mechanism allows increments of 30°; load capacity see page 180, illustration no. ②





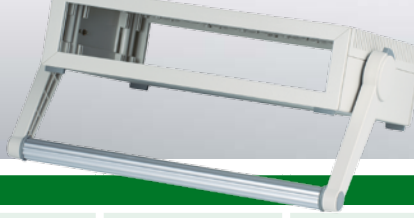
## MEDITEC

MEDITEC	Outside dim. in mm			Version / Equipment			Material	Part-No.		
	L	W	H	L-shells off-white, RAL 9002	side panels	without handle bar		with handle bar		
	E 160	160	200	74	with ventilation	off-white	–	ABS (UL 94 HB)	B 22 13 007	B 22 13 107
		160	200	74	with ventilation	lagoon	–	ABS (UL 94 HB)	B 22 13 005	B 22 13 105
		160	200	74	without ventilation	off-white	–	ABS (UL 94 HB)	B 22 13 017	B 22 13 117
		160	200	74	without ventilation	lagoon	–	ABS (UL 94 HB)	B 22 13 015	B 22 13 115
		160	200	124	with ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 13 207	B 22 13 307
		160	200	124	with ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 13 205	B 22 13 305
		160	200	124	without ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 13 217	B 22 13 317
		160	200	124	without ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 13 215	B 22 13 315
	E 220	160	260	74	with ventilation	off-white	–	ABS (UL 94 HB)	B 22 12 007	B 22 12 107
		160	260	74	with ventilation	lagoon	–	ABS (UL 94 HB)	B 22 12 005	B 22 12 105
		160	260	74	without ventilation	off-white	–	ABS (UL 94 HB)	B 22 12 017	B 22 12 117
		160	260	74	without ventilation	lagoon	–	ABS (UL 94 HB)	B 22 12 015	B 22 12 115
		160	260	124	with ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 12 207	B 22 12 307
		160	260	124	with ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 12 205	B 22 12 305
		160	260	124	without ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 12 217	B 22 12 317
		160	260	124	without ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 12 215	B 22 12 315
	D 160	290	200	74	with ventilation	off-white	–	ABS (UL 94 HB)	B 22 11 007	B 22 11 107
		290	200	74	with ventilation	lagoon	–	ABS (UL 94 HB)	B 22 11 005	B 22 11 105
		290	200	74	without ventilation	off-white	–	ABS (UL 94 HB)	B 22 11 017	B 22 11 117
		290	200	74	without ventilation	lagoon	–	ABS (UL 94 HB)	B 22 11 015	B 22 11 115
		290	200	124	with ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 11 207	B 22 11 307
		290	200	124	with ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 11 205	B 22 11 305
		290	200	124	without ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 11 217	B 22 11 317
		290	200	124	without ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 11 215	B 22 11 315
	D 220	290	260	74	with ventilation	off-white	–	ABS (UL 94 HB)	B 22 10 007	B 22 10 107
		290	260	74	with ventilation	lagoon	–	ABS (UL 94 HB)	B 22 10 005	B 22 10 105
		290	260	74	without ventilation	off-white	–	ABS (UL 94 HB)	B 22 10 017	B 22 10 117
		290	260	74	without ventilation	lagoon	–	ABS (UL 94 HB)	B 22 10 015	B 22 10 115
		290	260	124	with ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 10 207	B 22 10 307
		290	260	124	with ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 10 205	B 22 10 305
		290	260	124	without ventilation	off-white	1 pc per side	ABS (UL 94 HB)	B 22 10 217	B 22 10 317
		290	260	124	without ventilation	lagoon	1 pc per side	ABS (UL 94 HB)	B 22 10 215	B 22 10 315

## SEPARATE PARTS (FOR INDIVIDUAL COMBINATIONS)

L-shells	Version / Application	without holes	with holes*1	
	E 160	ABS, off-white, 160 x 200 x 74 mm, 2 pcs incl. assembly kit and feet	B 20 13 007	B 20 13 107
	E 220	ABS, off-white, 160 x 260 x 74 mm, 2 pcs incl. assembly kit and feet	B 20 12 007	B 20 12 107
	D 160	ABS, off-white, 290 x 200 x 74 mm, 2 pcs incl. assembly kit and feet	B 20 11 007	B 20 11 107
	D 220	ABS, off-white, 290 x 260 x 74 mm, 2 pcs incl. assembly kit and feet	B 20 10 007	B 20 10 107
Side panels	Version / Application	without holes	with holes*1	
	160	ABS, off-white, for 50 mm additional height, 2 pcs incl. screws	B 20 31 007	B 20 31 107
	220	ABS, off-white, for 50 mm additional height, 2 pcs incl. screws	B 20 30 007	B 20 30 107
Handle bar	Version / Application			
	E	Side arms, off-white, push-buttons volcano, aluminium centre section, 1 pc	B 21 16 507	
	D	Side arms, off-white, push-buttons volcano, aluminium centre section, 1 pc	B 21 29 507	
Side trims	Version / Application	off-white	lagoon	
	160	ABS, without ventilation, 2 pcs	B 20 22 007	B 20 22 005
	220	ABS, without ventilation, 2 pcs	B 20 20 007	B 20 20 005
	160	ABS, with ventilation, 2 pcs	B 20 23 007	B 20 23 005
	220	ABS, with ventilation, 2 pcs	B 20 21 007	B 20 21 005

\*1 for mounting handle bar (separate article)



## MEDITEC ACCESSORIES

Article	For MEDITEC	Version / Application	Part-No.
① Sloping control panel	E	ABS, off-white, RAL 9002, 2-part construction for easy access to component parts, max. dim. keypad 132.00/261.70 x 66.00 mm, 1 pc	B 21 16 007
	D		B 21 29 007
② Front / rear panel* <sup>2</sup>	E (74 mm high)	flat, ABS, off-white, RAL 9002, 141.6 x 55.6 x 3 mm, 1 pc	B 21 16 307
	E (124 mm high)	Z1, ABS, off-white, RAL 9002, 141.6 x 105.6 x 3 mm, 1 pc	B 21 16 407
	D (74 mm high)	flat, ABS, off-white, RAL 9002, 271.6 x 55.6 x 3 mm, 1 pc	B 21 29 307
	D (124 mm high)	Z1, ABS, off-white, RAL 9002, 271.6 x 105.6 x 3 mm, 1 pc	B 21 29 407
③ Infill panel	E	to close the interior of the case when using MEDITEC cases with 1 panel per side	B 21 16 707
	D	(case height 124 mm) + sloping control panel, ABS, off-white* <sup>3</sup>	B 21 29 707
④ Wall mounting brackets	E, D	for exterior wall mounting, PA, volcano, 4 pcs incl. screws	B 21 33 012
⑤ Stacking elements	E, D	for secure stacking of several devices, volcano, 4 pcs	B 21 34 012
⑥ Connectors	E, D	for secure connection of 2 side panels, simple pin and lock, 4 pcs	B 21 35 017
⑦ Set of screws	E, D	4 x ø 2.5 x 6 mm, for mounting PCBs	A 91 99 008







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\*<sup>2</sup> front / rear panel Z2 for case height 174 mm (cases with 2 side panels per side) on request

\*<sup>3</sup> can be used either above or below; closed at the front/rear with rear panel Z1 (separate article)

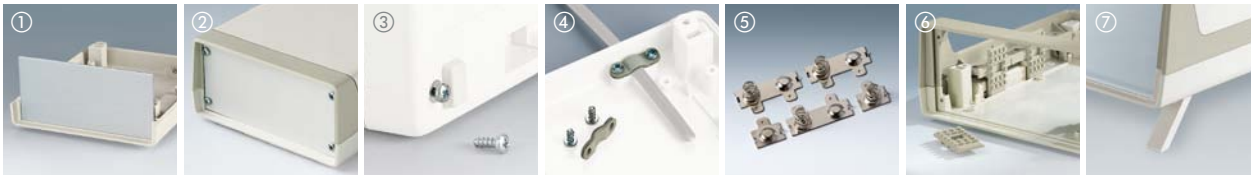


## LUX CASE

LUX CASE	Outside dim. in mm			Version / Equipment			Material	Part-No. off-white RAL 9002/ centre section pebble grey RAL 7032	
	W	D	H	battery compartment	pillars for strain relief	ventilation slots			
 150	118	150	57	I	–	•	–	ABS (UL 94 HB)	A 99 12 637
	118	150	57	II	4 x AA	–	–	ABS (UL 94 HB)	A 99 12 687
 190	148	190	67	I	–	•	–	ABS (UL 94 HB)	A 99 15 737
	148	190	67	II	4 x AA	–	–	ABS (UL 94 HB)	A 99 15 787
 230 without handle	173	230	136	I	–	•	–	ABS (UL 94 HB)	A 99 17 837
	173	230	136	II	–	•	•	ABS (UL 94 HB)	A 99 17 847
 230 with handle	173	230	136	III	–	•	–	ABS (UL 94 HB)	A 99 17 857
	173	230	136	IV	–	•	•	ABS (UL 94 HB)	A 99 17 877

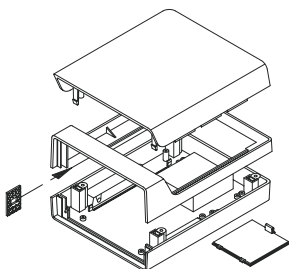
## LUX CASES ACCESSORIES

Article	For LUX CASE	Version / Application	Part-No.
① Front panel	150	for slide-in, matt anodised aluminium, 108 x 52.8 x 1.5 mm, 1 pc	A 91 99 121
	150	for screw fixing, matt anodised aluminium, 106.3 x 50.4 x 2 mm, 1 pc	A 91 99 122
	190	for slide-in, matt anodised aluminium, 134 x 62.5 x 1.5 mm, 1 pc	A 91 99 151
	230	for slide-in, matt anodised aluminium, 131.5 x 158.2 x 1.5 mm, 1 pc	A 91 99 171
	230	for screw fixing, matt anodised aluminium, 128.4 x 152.3 x 2 mm, 1 pc	A 91 99 172
② Assembly kit	150	4 screws for the front panel fixing	A 91 99 004
	230	4 screws for the front panel fixing	A 91 99 006
③ Assembly kit	150, 190	4 screws for the case assembly (for additional locking)	A 91 99 003
④ Strain relief	150, 190, 230	1 strain relief, 2 screws	A 91 99 005
⑤ Set of battery clips	150, 190	nickel-plated, for 4 x 1.5 V mignon cells (AA)	A 91 90 013
⑥ Card guide	150, 190, 230	ABS, for slide-in of PCBs, max. 8 pcs (150) resp. 10 pcs (190, 230)	A 91 99 000
⑦ Tilt foot	150, 190, 230	ABS, off-white, snaps into the base, 1 pc	A 03 50 007
	150, 190, 230	ABS, pebble grey, snaps into the base, 1 pc	A 03 50 008

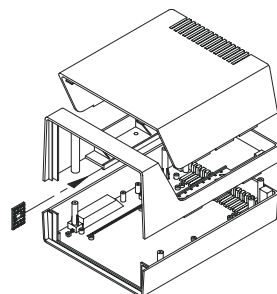


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LUX CASE 150, 190



LUX CASE 230





## TOPTEC

TOPTEC	Outside dim. in mm			Version / Equipment (dim. in mm)		max. dim. keypad	Material	Part-No.	
	L	W	H	ventilation slots				off-white RAL 9002/ pebble grey RAL 7032	black RAL 9005
102	102	54	30	I	—	82.60 x 38.00	ABS (UL 94 HB)	B 10 40 365	B 10 40 369
	102	54	30	II	•	82.60 x 38.00	ABS (UL 94 HB)	B 10 40 465	B 10 40 469
123 F	123	68	30	I	—	100.50 x 48.00	ABS (UL 94 HB)	B 10 55 365	B 10 55 369
	123	68	30	II	•	100.50 x 48.00	ABS (UL 94 HB)	B 10 55 465	B 10 55 469
123 H	123	68	45	I	—	100.60 x 48.00	ABS (UL 94 HB)	B 10 50 365	B 10 50 369
	123	68	45	II	•	100.60 x 48.00	ABS (UL 94 HB)	B 10 50 465	B 10 50 469
154 F	154	84	38	I	—	125.50 x 59.90	ABS (UL 94 HB)	B 10 65 365	B 10 65 369
	154	84	38	II	•	125.50 x 59.90	ABS (UL 94 HB)	B 10 65 465	B 10 65 469
154 H	154	84	56	I	—	125.90 x 60.10	ABS (UL 94 HB)	B 10 60 365	B 10 60 369
	154	84	56	II	•	125.90 x 60.10	ABS (UL 94 HB)	B 10 60 465	B 10 60 469
194 F	194	115	46	I	—	163.20 x 85.00	ABS (UL 94 HB)	B 10 75 365	B 10 75 369
	194	115	46	II	•	163.20 x 85.00	ABS (UL 94 HB)	B 10 75 465	B 10 75 469
194 H	194	115	68	I	—	163.00 x 84.90	ABS (UL 94 HB)	B 10 70 365	B 10 70 369
	194	115	68	II	•	163.00 x 84.90	ABS (UL 94 HB)	B 10 70 465	B 10 70 469

## TOPTEC ACCESSORIES

Article	For TOPTEC	Version / Application	Part-No.	
			pebble grey RAL 7032	black RAL 9005
① Wall suspension element	102	Plastic, with snap-in connection, 1 pc	B 13 40 028	B 13 40 029
	123 F/H	Plastic, with snap-in connection, 1 pc	B 13 50 028	B 13 50 029
	154 F/H	Plastic, with snap-in connection, 1 pc	B 13 60 028	B 13 60 029
	194 F/H	Plastic, with snap-in connection, 1 pc	B 13 70 028	B 13 70 029
② Fastening element for DIN rails acc. to DIN EN 60715 TH35 / G32	123, 154, 194 F/H	off-white, 1 pc incl. assembly kit (drilling necessary)	B 13 00 017	
	123, 154, 194 F/H	black, 1 pc incl. assembly kit (drilling necessary)	B 13 00 019	
③ Set of screws	all sizes	4 x ø 2.5 x 6 mm, for mounting PCBs	A 91 99 008	



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## FLAT-PACK CASE

FLAT-PACK CASE N/H	Outside dim. in mm			Version / Equipment (dim. in mm)		Material	Part-No. off-white RAL 9002/ pebble grey RAL 7032	
	L	W	H	handle bar	max. size of PCB			
	100 N	100	50	25	I –	76 x 43 / –	ABS (UL 94 HB)	A 90 10 065
	100 H	100	50	40	I –	76 x 43 / –	ABS (UL 94 HB)	A 90 11 065
	120 N	120	65	40	I –	96 x 58 / –	ABS (UL 94 HB)	A 90 20 065
	120 H	120	65	65	I –	96 x 58 / 94 x 58	ABS (UL 94 HB)	A 90 21 065
	150 N	150	80	50	I –	126 x 73 / –	ABS (UL 94 HB)	A 90 30 065
		150	80	50	II •	126 x 73 / –	ABS (UL 94 HB)	A 90 30 165
		150	80	55	I –	126 x 73 / –	ABS (UL 94 HB)	A 90 32 065
	150 H	150	80	80	I –	126 x 73 / 142 x 72	ABS (UL 94 HB)	A 90 31 065
	189 N	189	110	60	I –	160 x 103 / –	ABS (UL 94 HB)	A 90 40 065
		189	110	60	II •	160 x 103 / –	ABS (UL 94 HB)	A 90 40 165
189		110	70	I –	160 x 103 / –	ABS (UL 94 HB)	A 90 43 065	
189 H	189	110	97	I –	160 x 103 / 158 x 102	ABS (UL 94 HB)	A 90 41 065	
	189	110	97	II •	160 x 103 / 158 x 102	ABS (UL 94 HB)	A 90 41 165	
	189	110	120	I –	160 x 103 / 180 x 101	ABS (UL 94 HB)	A 90 42 065	

FLAT-PACK CASE S/L	Outside dim. in mm			Version / Equipment (dim. in mm)		Material	Part-No. off-white RAL 9002/ pebble grey RAL 7032	
	L	W	H	... slots	max. size of PCB			
	120 S	120	65	40	sound	96 x 58 / –	ABS (UL 94 HB)	A 90 20 265
	189 L	189	110	70	ventilation	160 x 103 / –	ABS (UL 94 HB)	A 90 43 265

FLAT-PACK CASE A	Outside dim. in mm			Version / Equipment (dim. in mm)		Material	Part-No. off-white RAL 9002/ pebble grey RAL 7032	
	L	W	H	front panel	max. size of PCB			
	120 A	120	65	40	– (accessory)	106 x 57 / –	ABS (UL 94 HB)	A 95 20 165
	150 A	150	85	45	– (accessory)	138 x 67 / –	ABS (UL 94 HB)	A 95 30 165
	210 A	210	125	70	– (accessory)	194 x 109 / –	ABS (UL 94 HB)	A 95 40 165

## FLAT-PACK CASE ACCESSORIES

Article	For FLAT-PACK CASE	Version / Application	Part-No.
① Front panel	120 A	matt anodised aluminium, 113 x 58 x 1 mm, 1 pc	A 91 95 201
	150 A	matt anodised aluminium, 141,8 x 71,6 x 1,5 mm, 1 pc	A 91 95 301
	210 A	matt anodised aluminium, 201 x 116 x 1,5 mm, 1 pc	A 91 95 401
② Snap lock	189 N/H/L	replace the standard screw fixing of the case*2, 1 pc	A 91 00 008
③ Assembly kit*3	100 H, 120 N	4 screws and press-in counternut	A 91 20 000
	150 N (A90 30 ...)	4 screws and press-in counternut	A 91 30 000
	150 N (A 90 32 ...)	4 screws and press-in counternut	A 91 32 000
	189 N (A 90 40 ...)	4 screws and press-in counternut	A 91 40 000



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\*1 FLAT-PACK CASE A: if the case is wall mounted, the frame can be screwed to the base from the side

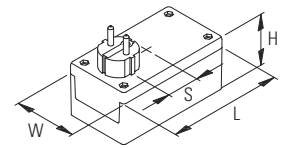
\*2 this simple snap lock device replaces the standard screw fixings supplied with the case; the lock is fixed into the assembly bushes in the top cover; with this, the top can be fixed from the front – this is especially useful if the case is to be wall mounted; only for FLAT-PACK CASES 189 N/H/L with assembly bushes

\*3 assembly kit for wall mounting permits screw fixing of the case from the front; it is necessary to drill the top cover of the case in order to achieve this; ask for more details of our service



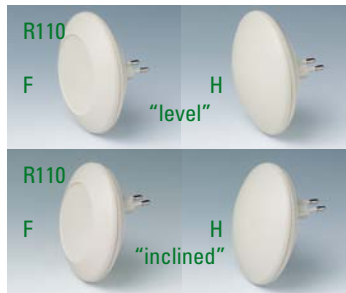
## PLUG CASE

PLUG CASE	Outside dim. in mm				Version / Equipment (dim. in mm)			Material	Part-No.	
	L	W	H	S	plug section	integr. socket	max. size of PCB bottom / top part		top part off-white RAL 9002	bottom part pebble grey RAL 7032
 D	120	65	55	34	II	DIN 49441 R2	DIN 49440	96 x 58 / -		A 90 22 465
 UK	120	65	40	27	I	BS 1363	-	96 x 58 / -	flame-resistant material according to UL 94 V-0	A 90 20 165
 F / D	100	50	40	25	I	DIN 49441 R2	-	76 x 43.5 / -		A 90 11 665
	120	65	65	34	I	DIN 49441 R2	-	96 x 58 / 95 x 58.5		A 90 21 665






## ART-CASE

### DESIGN SELECTION



### ART-CASE WITH INTEGRATED EURO PLUG IN ACCORDANCE WITH DIN VDE 0620 PART 101

ART-CASE	Outside dim. in mm		Equipment (dim. in mm)		Material	height	Part-No. with top part "F"		Part-No. with top part "H"		
	L	W	bottom part	max. dim. keypad (only with top part "F")			off-white RAL 9002	black RAL 9005	off-white RAL 9002	black RAL 9005	
R110	110	110	 "level"	ø 72	ABS (UL 94 HB), live parts flame-resistant material (UL 94 V-0)	30	B 50 11 027	B 50 11 029	38	B 50 11 127	B 50 11 129
	110	110	 "inclined"	ø 72		38	B 50 11 227	B 50 11 229	41	B 50 11 327	B 50 11 329
S110	110	110	 "inclined"	79.5 x 79.5		38	B 50 13 227	B 50 13 229		-	-







### ART-CASE ACCESSORIES

Article	For ART-CASE	Version / Application	Part-No.
 Set of screws	all	4 x ø 2.5 x 5 mm, self-tapping crosshead screw (PZ1), for mounting PCBs	B 51 11 201

## DESIGN SELECTION



## ART-CASE

ART-CASE	Outside dim. in mm		Equipment (dim. in mm)		Material	height	Part-No. with top part "F"		Part-No. with top part "H"		
	L	W	bottom part	max. dim. keypad (only with top part "F")			off-white RAL 9002	black RAL 9005	height	off-white RAL 9002	black RAL 9005
R110	110	110	 "level"	ø 72	ABS (UL 94 HB)	30	B 50 10 007	B 50 10 009	38	B 50 10 107	B 50 10 109
	110	110	 "inclined"	ø 72	ABS (UL 94 HB)	38	B 50 10 207	B 50 10 209	41	B 50 10 307	B 50 10 309
S110	110	110	 "inclined"	79.5 x 79.5	ABS (UL 94 HB)	38	B 50 12 207	B 50 12 209		–	–
O160	160	110	 "level"	121.8 x 71.8	ABS (UL 94 HB)	30	B 50 15 007	B 50 15 009	38	B 50 15 107	B 50 15 109
	160	110	 "inclined"	121.8 x 71.8	ABS (UL 94 HB)	38	B 50 15 207	B 50 15 209	41	B 50 15 307	B 50 15 309
E160	160	110	 "inclined"	129 x 79	ABS (UL 94 HB)	38	B 50 17 207	B 50 17 209		–	–

## End piece required for bottom part!

Depending on the application following article are available.  
Article Version/Application

		Part-No. off-white RAL 9002	Part-No. black RAL 9005
	Lid	B 50 11 847	B 50 11 849
	Battery compartment lid	B 50 11 857	B 50 11 859
	Base	B 50 11 117	B 50 11 119
	Base 30°	B 50 11 217	B 50 11 219
	Base 55°	B 50 11 317	B 50 11 319

ART-CASE with integrated Euro plug see [page 163](#)



## ART-CASE ACCESSORIES

Article	For ART-CASE	Version / Application	Part-No.
① Battery compartment	bottom part level / inclined	ABS, off-white, for 2 x 1.5 V (AAA), incl. assembly kit, battery compartment lid or base, base 30° resp. base 55° necessary	B 51 11 107
	bottom part level / inclined	ABS, black, for 2 x 1.5 V (AAA), incl. assembly kit, battery compartment lid or base, base 30° resp. base 55° necessary	B 51 11 109
② Set of battery clips	battery compartment ①	tin-plated, for 2 x 1.5 V micro cells (AAA)	A 91 66 001
	base	tin-plated, for 2 x 1.5 V mignon cells (AA)	A 91 90 002
③ Battery contact	battery compartment ①	tin-plated, for a serial connection of the micro cells (AAA)	A 91 66 002
④ Battery holder	battery compartment ①	clamps down securely 2 x AAA (for enclosures with base 30°/55° necessary)	A 91 66 003
⑤ Strain relief	base	1 strain relief, 2 screws	A 91 99 005
⑥ Wall mounting set	R110 / O160 with lid resp. all bases; S110 / E160 only in combination with the bases	ABS, off-white, for wall mounting (machining lid/bases necessary)	B 51 11 307
		ABS, black, for wall mounting (machining lid/bases necessary)	B 51 11 309
⑦ Anti-rotation device	all bases	ABS, off-white, to prevent the base from being removed, incl. screws	B 51 11 707
⑧ Anti-slide feet	all	transparent, self-adhesive, ø 6.5 x 2 mm, for desk application, 1 pair	A 92 07 150
⑨ Set of screws	all	4 x ø 2.5 x 5 mm, self-tapping crosshead screw (type PZ1), for mounting PCBs	B 51 11 201









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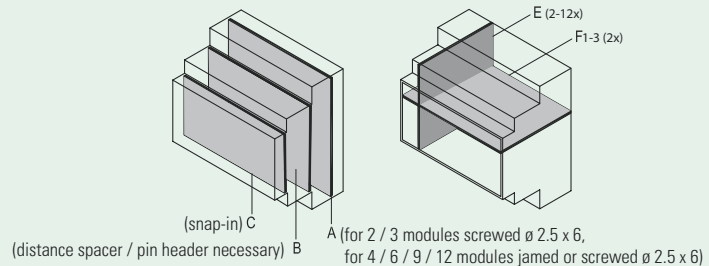
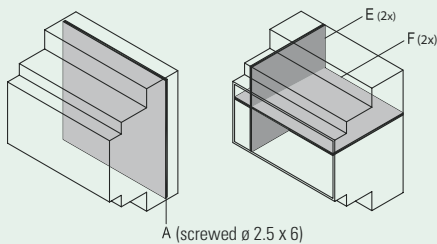




## RAILTEC B\*1

RAILTEC B Versions	Sizes	Outside dim. in mm			Version / Equipment termination options	Part-No.	
		W	H	T		without ventilation slots	with ventilation slots
I 	2 modules	35	86	58	I terminal blocks 5.0/5.08 (10 terminals max.)	B 65 01 111	B 65 01 114
		35	86	58	II plug header 5.0/5.08 (2 x 5 poles)	B 65 01 112	B 65 01 115
		35	86	58	III closed case, e.g. for front connectors, D-SUB-connectors, etc.	B 65 01 113	B 65 01 116
		35	86	58	IV terminal blocks 5.0/5.08 (5 terminals max., at the bottom only)	B 65 01 117	B 65 01 118
		35	86	58	V perforation*2 for max. 10 terminal blocks or 2 plug headers 5 poles	B 65 01 110	B 65 01 119
		35	90	58	VI individual configuration see accessories (terminal guards / partition plate)	B 65 01 121	
II 	3 modules	52	90	58	VI individual configuration see accessories (terminal guards / partition plate)	B 65 02 121	
	4 modules	70	86	58	I terminal blocks 5.0/5.08 (24 terminals max.)	B 65 03 111	B 65 03 114
70		86	58	II plug header 5.0/5.08 (2 x 12 poles)	B 65 03 112	B 65 03 115	
70		86	58	III closed case, e.g. for front connectors, D-SUB-connectors, etc.	B 65 03 113	B 65 03 116	
70		86	58	IV terminal blocks 5.0/5.08 (12 terminals max., at the bottom only)	B 65 03 117	B 65 03 118	
70		86	58	V perforation*2 for max. 24 terminal blocks or 2 plug headers 12 poles	B 65 03 110	B 65 03 119	
70		90	58	VI individual configuration see accessories (terminal guards / partition plate)	B 65 03 121		
III 	6 modules	105	86	58.5	I terminal blocks 5.0/5.08 (36 terminals max.)	B 65 04 111	B 65 04 114
		105	86	58.5	II plug header 5.0/5.08 (2 x 18 poles)	B 65 04 112	B 65 04 115
		105	86	58.5	III closed case, e.g. for front connectors, D-SUB-connectors, etc.	B 65 04 113	B 65 04 116
		105	86	58.5	IV terminal blocks 5.0/5.08 (18 terminals max., at the bottom only)	B 65 04 117	B 65 04 118
		105	86	58.5	V perforation*2 for max. 36 terminal blocks or 2 plug headers 18 poles	B 65 04 110	B 65 04 119
		105	90	58	VI individual configuration see accessories (terminal guards / partition plate)	B 65 04 121	
IV 	9 modules	157	86	58.5	I terminal blocks 5.0/5.08 (52 terminals max.)	B 65 05 111	B 65 05 114
		157	86	58.5	II plug header 5.0/5.08 (4 x 13 poles)	B 65 05 112	B 65 05 115
		157	86	58.5	III closed case, e.g. for front connectors, D-SUB-connectors, etc.	B 65 05 113	B 65 05 116
		157	86	58.5	IV terminal blocks 5.0/5.08 (26 terminals max., at the bottom only)	B 65 05 117	B 65 05 118
		157	86	58.5	V perforation*2 for max. 52 terminal blocks or 4 plug headers 13 poles	B 65 05 110	B 65 05 119
		157	90	58	VI individual configuration see accessories (terminal guards / partition plate)	B 65 05 121	
V 	12 modules	210	90	58	I terminal blocks 5.0/5.08 (64 terminals max.)	B 65 06 111	B 65 06 114
		210	90	58	II plug header 5.0/5.08 (4 x 8 poles and 4 x 7 poles)	B 65 06 112	B 65 06 115
		210	90	58	III closed case, e.g. for front connectors, D-SUB-connectors, etc.	B 65 06 113	B 65 06 116
		210	90	58	IV terminal blocks 5.0/5.08 (32 terminals max., at the bottom only)	B 65 06 117	B 65 06 118
		210	90	58	V perforation*2 for max. 64 terminal blocks or plug headers 4x8 poles + 4x7 poles	B 65 06 110	B 65 06 119
		210	90	58	VI individual configuration see accessories (terminal guards / partition plate)	B 65 06 121	
VI 							

## Max. size of PCB in mm



For enclosure RAILTEC B	Versions I - V (each 1.6 mm thick)			Version VI (each 1.6 mm thick)			E*3	F1*4	F2*4	F3*4
	A	E*3	F	A*3	B*3	C				
2 modules	29.4 x 82	41.5 x 56.6	41.5 x 31	29.4 x 82	31.5 x 62.2	31.4 x 41.7	62.5 x 40.4	32.5 x 40.5	32.5 x 35.5	32.5 x 18
3 modules	—	—	—	46.7 x 82	49 x 62.2	48.8 x 41.7	62.5 x 40.4	50 x 40.5	50 x 35.5	50 x 18
4 modules	64 x 82	41.5 x 56.6	41.5 x 66.5	64 x 82	66.5 x 62.2	66.3 x 41.7	62.5 x 40.4	67.5 x 40.5	67.5 x 35.5	67.5 x 18
6 modules	99.2 x 82.4	41.5 x 56.6	41.5 x 101	99.2 x 82.4	101.5 x 62.2	101.3 x 41.7	62.5 x 40.4	102.5 x 40.5	102.5 x 35.5	102.5 x 18
9 modules	151.2 x 82.4	41.5 x 56.6	41.5 x 153	151.2 x 82.4	154 x 62.2	153.8 x 41.7	62.5 x 40.4	155 x 40.5	155 x 35.5	155 x 18
12 modules	204.2 x 82	41.5 x 56.6	41.5 x 206.5	204.2 x 82	206.5 x 62.2	206.3 x 41.7	62.5 x 40.4	207.5 x 40.5	207.5 x 35.5	207.5 x 18

\*1 material/colour: base parts PPO (UL 94 V-0) black; top parts PC (UL 94 V-0) light grey RAL 7035; clip black

\*2 block 5.0; the perforation can be separated quickly and easily

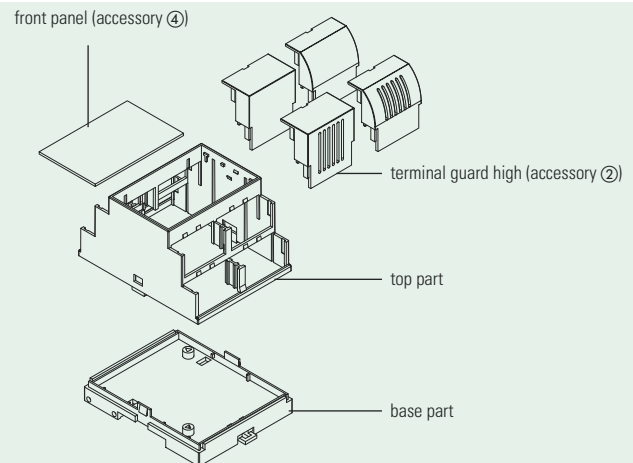
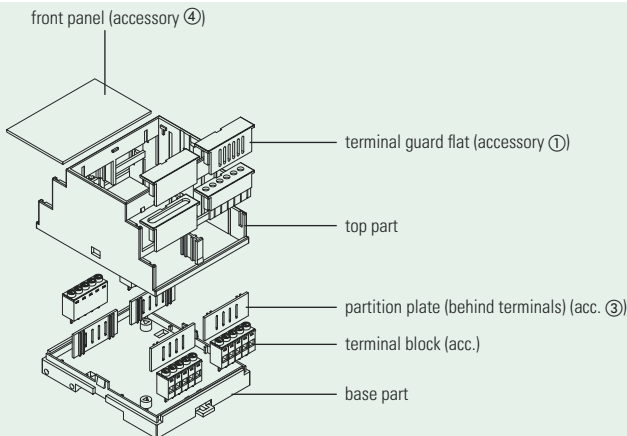
\*3 cutouts not taken into consideration

\*4 max. size of PCB:

F1: without PCBs B and C; F2: without PCB B, with PCB C; F3: with PCBs B and C



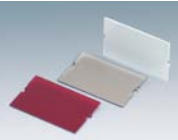
## INDIVIDUAL CONFIGURATION VERSION VI




**Make up your own individual RAILTEC B version VI online ([www.okw.com](http://www.okw.com)).**  
**Simply click on the desired case module and select the necessary article using the configurator (eDrawing).**

### RAILTEC B ACCESSORIES

Article	Type	For enclosure RAILTEC B (version VI)	Version / Application Pole (max.)	Part-No.
① Terminal guards flat max. number each case: 4 pcs – 2 / 3 modules 8 pcs – 4 / 6 modules 12 pcs – 9 modules 16 pcs – 12 modules	closed	2 / 4 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 07 140
		3 / 6 / 9 / 12 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 08 140
	with ventilation slots	2 / 4 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 07 141
		3 / 6 / 9 / 12 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 08 141
	for terminal blocks, block 5.0	2 / 4 modules (VI)	6 PC (UL 94 V-0), light grey, 1 pc	B 66 07 142
		3 / 6 / 9 / 12 modules (VI)	9 PC (UL 94 V-0), light grey, 1 pc	B 66 08 142
② Terminal guards high max. number each case: 2 pcs – 2 / 3 modules 4 pcs – 4 / 6 modules 6 pcs – 9 modules 8 pcs – 12 modules	closed	2 / 4 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 07 160
		3 / 6 / 9 / 12 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 08 160
	with ventilation slots	2 / 4 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 07 161
		3 / 6 / 9 / 12 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 08 161
	convex, closed	2 / 4 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 07 162
		3 / 6 / 9 / 12 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 08 162
③ Partition plate max. number each case: 2 pcs – 2 / 3 modules 4 pcs – 4 / 6 modules 6 pcs – 9 mod.; 8 pcs – 12 mod.	with ventilation slots	2 / 4 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 07 163
		3 / 6 / 9 / 12 modules (VI)	– PC (UL 94 V-0), light grey, 1 pc	B 66 08 163
		3 / 6 / 9 / 12 modules (VI)	PC (UL 94 V-0), light grey, 1 pc separates the electronic and terminal area when used without terminal guard (undermost level), connections externally accessible	B 66 07 191 B 66 08 191

Article	For RAILTEC B (version VI)	Dim. in mm	Version (PC UL 94 V-0)		
			light grey	red transparent	smoked glass
④ Front panel 	2 modules (VI)	32 x 42	B 66 01 180	B 66 01 480	B 66 01 580
	3 modules (VI)	49 x 42	B 66 02 180	B 66 02 480	B 66 02 580
	4 modules (VI)	67 x 42	B 66 03 180	B 66 03 480	B 66 03 580
	6 modules (VI)	102 x 42	B 66 04 180	B 66 04 480	B 66 04 580
	9 modules (VI)	154 x 42	B 66 05 180	B 66 05 480	B 66 05 580
	12 modules (VI)	206 x 42	B 66 06 180	B 66 06 480	B 66 06 580

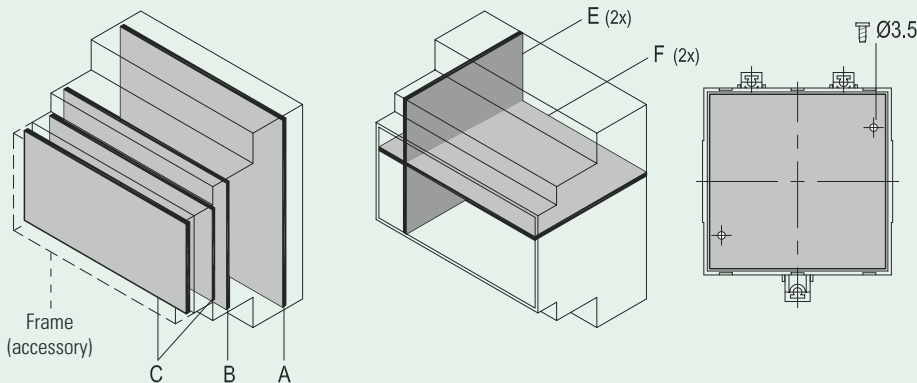
Article	For RAILTEC B	Version	Part-No.
Lid 	2 modules	PC (UL 94 V-0), transparent, 1 pc	B 66 01 100
	3 modules	PC (UL 94 V-0), transparent, 1 pc	B 66 02 100
	4 modules	PC (UL 94 V-0), transparent, 1 pc	B 66 03 100
	6 modules	PC (UL 94 V-0), transparent, 1 pc	B 66 04 100
	9 modules	PC (UL 94 V-0), transparent, 1 pc	B 66 05 100
	12 modules	PC (UL 94 V-0), transparent, 1 pc	B 66 06 100
Wall suspension element	for all case sizes	plastic, black, set with 2 pcs	B 66 00 334
Self-tapping screw	for all case sizes	ø 2.5 x 6 mm, for mounting PCBs (position "A"), 1 pc	A 03 05 031



## RAILTEC C\*1

RAILTEC C versions	sizes	Outside dim. in mm			Version / Equipment			Part-No.	
		W	H	D	front	connection side with	ventilation slots	1 side open	2 sides open
I	1 module	17.5	90	58	I open	free through passage	—	—	B 67 00 100
		17.5	90	58	II open	free through passage	•	—	B 67 00 102
		17.5	90	58	III open	extended case wall	—	—	B 67 00 104
		17.5	90	58	IV closed	free through passage	—	—	B 67 00 106
II	2 modules	36	90	58	I open	free through passage	—	—	B 67 01 100
		36	90	58	II open	free through passage	•	—	B 67 01 102
		36	90	58	III open	extended case wall	—	—	B 67 01 104
		36	90	58	IV closed	free through passage	—	—	B 67 01 106
III	3 modules	53	90	58	I open	free through passage	—	—	B 67 02 100
		53	90	58	II open	free through passage	•	—	B 67 02 102
		53	90	58	III open	extended case wall	—	—	B 67 02 104
		53	90	58	IV closed	free through passage	—	—	B 67 02 106
IV	4 modules	71	90	58	I open	free through passage	—	—	B 67 03 100
		71	90	58	II open	free through passage	•	—	B 67 03 102
		71	90	58	III open	extended case wall	—	—	B 67 03 104
		71	90	58	IV closed	free through passage	—	—	B 67 03 106
I	5 modules	88	90	58	I open	free through passage	—	B 67 04 101	B 67 04 100
		88	90	58	II open	free through passage	•	B 67 04 103	B 67 04 102
		88	90	58	III open	extended case wall	—	B 67 04 105	B 67 04 104
		88	90	58	IV closed	free through passage	—	B 67 04 107	B 67 04 106
II	6 modules	106	90	58	I open	free through passage	—	B 67 05 101	B 67 05 100
		106	90	58	II open	free through passage	•	B 67 05 103	B 67 05 102
		106	90	58	III open	extended case wall	—	B 67 05 105	B 67 05 104
		106	90	58	IV closed	free through passage	—	B 67 05 107	B 67 05 106
III	9 modules	160	90	58	I open	free through passage	—	B 67 06 101	B 67 06 100
		160	90	58	II open	free through passage	•	B 67 06 103	B 67 06 102
		160	90	58	III open	extended case wall	—	B 67 06 105	B 67 06 104
		160	90	58	IV closed	free through passage	—	B 67 06 107	B 67 06 106
IV	12 modules	210	90	58	I open	free through passage	—	—	B 67 07 100
		210	90	58	II open	free through passage	•	—	B 67 07 102

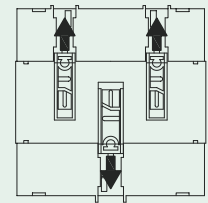
## Max. size of PCB in mm



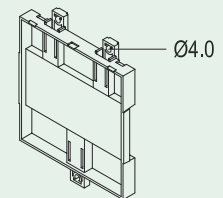
For enclosure RAILTEC C	Position A	B	C	E	F	screwed
1 module	86.5 x 14	57 x 14	41.8 x 14	34 x 59.6	40 x 14.8	—
2 modules	86.5 x 33	57 x 32	42 x 32	34 x 59.6	40 x 33	86.5 x 33
3 modules	86.5 x 50	57 x 49	42 x 49	34 x 59.6	40 x 50	86.5 x 50
4 modules	86.5 x 68	57 x 67	42 x 67	34 x 59.6	40 x 68	86.5 x 68
5 modules	86.5 x 84	57 x 83	42 x 83	34 x 59.6	40 x 84	86.5 x 84
6 modules	86.5 x 103	57 x 102	42 x 102	34 x 59.6	40 x 103	86.5 x 103
9 modules	86.5 x 155	57 x 155.4	42 x 154	34 x 59.6	40 x 155	86.5 x 155
12 modules	86.5 x 208.5	57 x 207.5	42 x 207	34 x 59.6	40 x 208	86.5 x 207

## Locking clip assembly

DIN rail mounting EN 60715 TH35

base  
outside view

direct wall mounting



## Supply

1 top and 1 base part each, locking clips unassembled  
 (2 pcs each in module sizes 1 – 4, and  
 3 pieces each in module sizes 5 – 12).



## RAILTEC C ACCESSORIES

Article	Type	For enclosure RAILTEC C versions I, II, IV	Version / Equipment Pole (max.)*2	Part-No.		
① Terminal guards  max. number of terminal guards 1 side open: 1 pcs – 5 modules 2 pcs – 6 modules 3 pcs – 9 modules  max. number of terminal guards 2 sides open: 2 pcs – 1 / 2 / 3 / 4 / 5 modules 4 pcs – 6 modules 6 pcs – 9 modules 8 pcs – 12 modules	closed	1 module	–	PC (UL 94 V-0), light grey, 1pc	B 68 00 111	
		2 modules	–	PC (UL 94 V-0), light grey, 1pc	B 68 01 111	
		3 / 6 / 9 / 12 modules	–	PC (UL 94 V-0), light grey, 1pc	B 68 02 111	
		4 modules	–	PC (UL 94 V-0), light grey, 1pc	B 68 03 111	
		5 modules	–	PC (UL 94 V-0), light grey, 1pc	B 68 04 111	
	perforated, block 5.08*2	1 module	3	3	PC (UL 94 V-0), light grey, 1pc	B 68 00 112
		2 modules	6	6	PC (UL 94 V-0), light grey, 1pc	B 68 01 112
		3 / 6 / 9 / 12 modules	9	9	PC (UL 94 V-0), light grey, 1pc	B 68 02 112
		4 modules	12	12	PC (UL 94 V-0), light grey, 1pc	B 68 03 112
		5 modules	15	15	PC (UL 94 V-0), light grey, 1pc	B 68 04 112
	with holes, block 5.08*2	1 module	3	3	PC (UL 94 V-0), light grey, 1pc	B 68 00 113
		2 modules	6	6	PC (UL 94 V-0), light grey, 1pc	B 68 01 113
		3 / 6 / 9 / 12 modules	9	9	PC (UL 94 V-0), light grey, 1pc	B 68 02 113
		4 modules	12	12	PC (UL 94 V-0), light grey, 1pc	B 68 03 113
		5 modules	15	15	PC (UL 94 V-0), light grey, 1pc	B 68 04 113
	with holes, block 7.5 & 7.62*2	1 module	2	2	PC (UL 94 V-0), light grey, 1pc	B 68 00 114
		2 modules	4	4	PC (UL 94 V-0), light grey, 1pc	B 68 01 114
		3 / 6 / 9 / 12 modules	6	6	PC (UL 94 V-0), light grey, 1pc	B 68 02 114
		4 modules	8	8	PC (UL 94 V-0), light grey, 1pc	B 68 03 114
		5 modules	10	10	PC (UL 94 V-0), light grey, 1pc	B 68 04 114
with holes, block 10.16*2	1 module	2	2	PC (UL 94 V-0), light grey, 1pc	B 68 00 115	
	2 modules	3	3	PC (UL 94 V-0), light grey, 1pc	B 68 01 115	
	3 / 6 / 9 / 12 modules	5	5	PC (UL 94 V-0), light grey, 1pc	B 68 02 115	
	4 modules	6	6	PC (UL 94 V-0), light grey, 1pc	B 68 03 115	
	5 modules	7	7	PC (UL 94 V-0), light grey, 1pc	B 68 04 115	
② Frame  10 mm long		2 modules	suitable for RAILTEC C versions I, II and III, allows additional PCB position as well as the use of the front lid convex with hinge, PC (UL 94 V-0), light grey, snap-in, 1 pc		B 68 01 120	
		3 modules			B 68 02 120	
		4 modules			B 68 03 120	
		5 modules			B 68 04 120	
		6 modules			B 68 05 120	
		9 modules			B 68 06 120	

Article	For RAILTEC C versions I, II, III and IV*3	Dim. in mm	Version (PC UL 94 V-0)			
			light grey	red transparent	smoked glass	transparent
③ Front panel	1 modul	14 x 42	B 68 00 100	B 68 00 300	B 68 00 400	B 68 00 200
	2 modules	32 x 42	B 68 01 100	B 68 01 300	B 68 01 400	B 68 01 200
	3 modules	49 x 42	B 68 02 100	B 68 02 300	B 68 02 400	B 68 02 200
	4 modules	67 x 42	B 68 03 100	B 68 03 300	B 68 03 400	B 68 03 200
	5 modules	84 x 42	B 68 04 100	B 68 04 300	B 68 04 400	B 68 04 200
	6 modules	102 x 42	B 68 05 100	B 68 05 300	B 68 05 400	B 68 05 200
	9 modules	155 x 42	B 68 06 100	B 68 06 300	B 68 06 400	B 68 06 200
	12 modules	207.5 x 42	B 68 07 100	–	–	–

Article	Für RAILTEC C versions I, II and III	without hinge (PC UL 94 V-0)			with hinge (PC UL 94 V-0)	
		light grey	red transparent	transparent	red transparent	transparent
Front lid convex	2 modules	B 68 01 101	B 68 01 301	B 68 01 201	B 68 01 302	B 68 01 202
④ without hinge	3 modules	B 68 02 101	B 68 02 301	B 68 02 201	B 68 02 302	B 68 02 202
⑤ with hinge (frame necessary)	4 modules	B 68 03 101	B 68 03 301	B 68 03 201	B 68 03 302	B 68 03 202
	5 modules	B 68 04 101	B 68 04 301	B 68 04 201	B 68 04 302	B 68 04 202
	6 modules	B 68 05 101	B 68 05 301	B 68 05 201	B 68 05 302	B 68 05 202
	9 modules	B 68 06 101	B 68 06 301	B 68 06 201	B 68 06 302	B 68 06 202



Placement RAILTEC C with terminal grid 5.0 (with/without terminal cover) resp. grid 5.08 (without terminal cover) see our website [www.okw.com](http://www.okw.com).

Terminal blocks and plug headers see [page 172](#)

\*2 the max. number of poles is designed to allow the use of terminals

\*3 when using case version IV (closed front):

for sizes 1 to 4 modules front panels cannot be disassembled; for case sizes 6 and 9 modules, machining is necessary






## ENCLOSURES

RAILTEC	Outside dim. in mm W H D	Version / Equipment	Material, colour	Part-No.
 CB	22.5 82 90	Flat case design, for plug headers (ideal in 5.0 grid, max. 12-pin), the supply contains 1 long side panel, 3 short side panels, closed, as well as 3 short side panels with 4 ventilation slots each (3 short side panels correspond to 1 long side panel), suitable for DIN EN 60715 TH35 and G32.	PA 66 (UL 94 V-0), green	B 67 21 521
 CB	45.5 82 90	Extended height case design, for plug headers (ideal in 5.0 grid, max. 12-pin), the supply contains 1 long side panel, 3 short side panels, closed, as well as 3 short side panels with 4 ventilation slots each (3 short side panels correspond to 1 long side panel), suitable for DIN EN 60 715 TH35 and G32.	PA 66 (UL 94 V-0), green	B 67 22 521
 CM	18 89 54	Basic module with integrated connection system (8 terminals, nickel-plated, individually removable), suitable for DIN EN 60715 TH35 or direct wall mounting.	ABS (UL 94 V-0), grey	B 67 00 120
 CM	18 89 54	Intermediate frame with integrated connection system (8 terminals, nickel-plated, individually removable), for another 17.5 mm more case width, or multiples thereof, snaps securely into basic module, DIN rail mounting with the locking clips of the basic module or using an adapter.	ABS (UL 94 V-0), grey	B 68 00 125
 CC	45 78 99	Complete case with integrated connecting system (12 terminals, nickel-plated), suitable for DIN EN 60715 TH35. The complete PCB, fitted with the components and terminals, can be pushed in from the front!	PC (UL 94 V-0), orange + grey, locking clip black	B 67 22 622

## DIN RAIL ADAPTER

## DIN RAIL ADAPTER

DIN rail ADAPTER	For RAILTEC	Version	Part-No.
	C (1-4 modules) / CM / CC	for DIN EN 60715 TH35 and TH15, type G32 in steel only, PA 68 (UL 94 V-0), green	B 68 11 542



Terminal blocks and plug headers see [page 172](#)

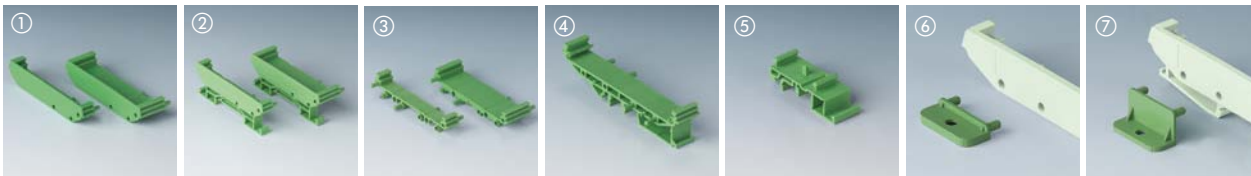


## RAILTEC SUPPORT SINGLE PIECES\*1

RAILTEC SUPPORT	Article	Outside dim. in mm			Size of PCB in mm		Material, colour	Part-No.
		W	H	L	W	L		
72	① End section	11.20	16	82	10	72	PA 68 (UL 94 V-0), green	B 67 20 333
		22.20	16	82	21	72	PA 68 (UL 94 V-0), green	B 67 20 334
	② End section with foot*2	11.20	22.50	82	10	72	PA 68 (UL 94 V-0), green	B 67 20 335
		22.20	22.50	82	21	72	PA 68 (UL 94 V-0), green	B 67 20 336
	③ Intermediate part	11.25	16	82	11.25	72	PA 68 (UL 94 V-0), green	B 67 20 330
22.50		16	82	22.50	72	PA 68 (UL 94 V-0), green	B 67 20 331	
45		16	82	45	72	PA 68 (UL 94 V-0), green	B 67 20 332	
	⑤ Foot*3					PA 68 (UL 94 V-0), green	B 67 20 337	
107	① End section	11.50	17.50	118	10	107	PA 68 (UL 94 V-0), green	B 67 20 444
		11.50	27.50	118	10	107	PA 68 (UL 94 V-0), green	B 67 20 445
	③ Intermediate part	18.50	17.50	118	18.50	107	PA 68 (UL 94 V-0), green	B 67 20 440
		35	17.50	118	35	107	PA 68 (UL 94 V-0), green	B 67 20 441
	④ Intermediate part with foot*4	18.50	27.50	118	18.50	107	PA 68 (UL 94 V-0), green	B 67 20 442
		35	27.50	118	35	107	PA 68 (UL 94 V-0), green	B 67 20 443

## RAILTEC SUPPORT ACCESSORIES

Article	For RAILTEC SUPPORT	Version / Application	Part-No.
⑥ Wall suspension element	72	allows direct wall mounting, suitable for end section ①, PA 68 (UL 94 V-0), green, 2 pcs as set	B 68 20 532
	107		B 68 20 542
⑦ Wall suspension element with foot	72	allows direct wall mounting, suitable for end section with foot ②, PA 68 (UL 94 V-0), green, 2 pcs as set	B 68 20 533
	107		B 68 20 543



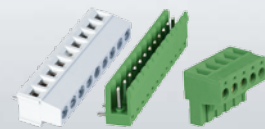
Terminal blocks and plug headers see **page 172**



\*1 supply: 1 pc each  
Minimum components for one support: 2 end sections with/without foot. Combining these parts with intermediate parts allows optimum adaptation to the relevant size requirements. The PCB widths are obtained by adding the relevant dimensions of the individual parts.

\*2 suitable for EN 60715 TH35 rails

\*3 can be used for intermediate part and end section without foot; suitable for EN 60715 TH35, TH15 and G32 rails

\*4 suitable for EN 60715 TH35, TH15 and G32 rails


**TERMINAL BLOCK**

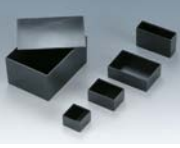


Terminal block	Version / Application		Material, colour	Part-No.
	poles	max. cable cross sections		
 block 5.0	5	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 01 111
	6	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 07 111
	9	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 08 111
	12	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 03 111
	13	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 05 111
	16	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 06 111
	18	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 04 111
	36	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 66 00 111
 block 5.08	3	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 68 00 650
	6	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 68 01 650
	9	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 68 02 650
	12	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 68 03 650
	15	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), grey	B 68 04 650

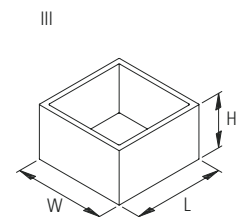
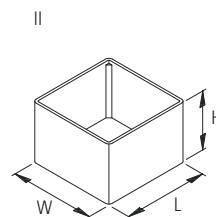
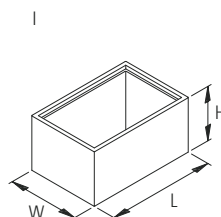
**PLUG HEADER**

Plug header	Version / Application		Material, colour	Part-No.
	poles	max. cable cross sections		
 "PCB" block 5.08	2	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 06 222
	3	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 00 222
	5	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 01 222
	6	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 08 222
	9	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 02 222
	12	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 03 222
	13	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 05 222
	15	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 07 222
 "plug" block 5.08	18	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 04 222
	2	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 06 223
	3	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 00 223
	5	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 01 223
	6	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 08 223
	9	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 02 223
	12	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 03 223
13	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 05 223	
15	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 07 223	
18	2.5 mm <sup>2</sup>	PA 68 (UL 94 V-0), green	B 66 04 223	



## POTTING BOXES\*1

POTTING BOXES	Article	Outside dim. in mm			Wall thickness in mm	Version	Part-No.	
		L	W	H			case	lid
	Duroplast	20	20	13.1	0.85	I	A 80 20 130	—
		25	25	14.8	0.8	I	A 80 25 150	—
		25	25	25	0.8	I	A 80 25 251	—
		30.2	20.15	15.1	0.95	I	A 80 30 150	A 81 30 200
		40.5	13.8	16.1	1.1	I	A 80 40 160	A 81 40 130
		40.2	13.55	25	0.85	I	A 80 40 250	A 81 40 130
		40	40	12.8	1.0	I	A 80 40 130	A 81 40 400
		40.2	40.2	20	1.0	I	A 80 40 200	A 81 40 400
		45.1	30.1	15	1.15	I	A 80 45 150	A 81 45 300
		45.1	30	24.9	1.1	I	A 80 45 250	A 81 45 300
		49.9	13.1	15	1.0	I	A 80 50 150	—
		50.15	50.15	15.1	1.3	I	A 80 50 160	A 81 50 500
		50.1	50.1	25.1	1.3	I	A 80 50 250	A 81 50 500
		50.7	50.7	49.7	1.7	I	A 80 50 500	A 81 50 500
		70	50.4	20	1.4	I	A 80 70 200	A 81 70 500
		70.6	50.4	35	1.4	I	A 80 70 350	A 81 70 500
		90.3	60.3	20	1.6	I	A 80 90 200	—
		100.1	50.2	24.8	1.5	I	A 80 10 250	—
100	100	40	1.8	I	A 80 10 400	—		
						case		
	PA 6.6	14	14	11.5	0.7	II	A 80 14 118	
		17.4	15	10.5	0.7	III	A 80 17 108	
		17.4	15	15.3	0.6	II	A 80 17 158	
		18.6	18.6	13.7	0.6	III	A 80 18 138	
		20.8	20.8	12.6	0.8	III	A 80 20 128	
		21.3	13.3	17.7	0.9	III	A 80 21 178	
		22.4	22.4	14	0.8	III	A 80 22 148	
		26.4	26.4	35.2	1.1	III	A 80 26 358	
		29	29	19.2	1.0	III	A 80 29 198	
		30.3	30.3	50.3	1.5	III	A 80 30 508	
		32.4	32.4	20	1.0	III	A 80 32 208	
		38.8	38.8	26.6	1.2	II	A 80 39 268	
		38.9	38.9	38.8	1.2	II	A 80 39 398	
		40	10	20.2	1.0	II	A 80 40 208	
46.2	46.2	40.8	1.1	III	A 80 46 408			
	ABS	12.3	12.3	15.3	1.0	III	A 80 12 159	
		21.2	21.2	12.1	1.0	III	A 80 21 129	
		25.3	25.3	15.2	1.0	III	A 80 25 159	
		38.3	20.4	20.2	1.0	III	A 80 38 209	
		45.5	30.5	15.7	1.2	III	A 80 45 169	
		67.5	35.8	46.3	1.7	III	A 80 67 469	



\*1 cases supplied bulk packed





## DIN-MODULAR CASES TYPE B

DIN-MODULAR CASE TYPE B acc. to DIN IEC 61554	Outside dim. in mm			Design*1	Version rear panel	front panel	attachment with	Material (UL 94 V-1)	Part-No. black
	W	H	D						
 96 x 48	96	48	109	1	no slots	removable	holding frame (acc.)	Noryl reinforced	A 98 42 401
	96	48	109	1	no slots	removable	holder (accessory)	Noryl reinforced	A 98 42 402
	96	48	109	1	1 slot	removable	holding frame (acc.)	Noryl reinforced	A 98 42 411
	96	48	109	1	1 slot	removable	holder (accessory)	Noryl reinforced	A 98 42 412
	96	48	109	1	2 slots	removable	holding frame (acc.)	Noryl reinforced	A 98 42 421
	96	48	109	1	2 slots	removable	holder (accessory)	Noryl reinforced	A 98 42 422
	96	48	150	1	no slots	removable	holding frame (acc.)	Noryl reinforced	A 98 42 501
	96	48	150	1	no slots	removable	holder (accessory)	Noryl reinforced	A 98 42 502
	96	48	150	1	1 slot	removable	holding frame (acc.)	Noryl reinforced	A 98 42 511
	96	48	150	1	1 slot	removable	holder (accessory)	Noryl reinforced	A 98 42 512
 72 x 72	72	72	110	1	no slots	removable	holder (accessory)	Noryl reinforced	A 98 33 401
	72	72	110	1	1 slot	removable	holder (accessory)	Noryl reinforced	A 98 33 411
	72	72	110	1	2 slots	removable	holder (accessory)	Noryl reinforced	A 98 33 421
	72	72	150	1	no slots	removable	holder (accessory)	Noryl reinforced	A 98 33 501
 96 x 96	96	96	51	1	no slots	removable	holder (accessory)	Noryl reinforced	A 98 44 101
	96	96	51	1	1 slot	removable	holder (accessory)	Noryl reinforced	A 98 44 111
	96	96	51	1	2 slots	removable	holder (accessory)	Noryl reinforced	A 98 44 121
	96	96	51	1	4 slots	removable	holder (accessory)	Noryl reinforced	A 98 44 141
	96	96	100	1	no slots	removable	holder (accessory)	Noryl reinforced	A 98 44 401
	96	96	100	1	1 slot	removable	holder (accessory)	Noryl reinforced	A 98 44 411
	96	96	100	1	2 slots	removable	holder (accessory)	Noryl reinforced	A 98 44 421
	96	96	100	1	4 slots	removable	holder (accessory)	Noryl reinforced	A 98 44 441
	96	96	151	1	no slots	removable	holder (accessory)	Noryl reinforced	A 98 44 501
	96	96	151	1	1 slot	removable	holder (accessory)	Noryl reinforced	A 98 44 511
 144 x 72	144	72	94	2	no slots	removable	holder (accessory)	Noryl reinforced	A 98 35 301
	144	72	96	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 35 302
	144	72	148	2	no slots	removable	holder (accessory)	Noryl reinforced	A 98 35 501
	144	72	150	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 35 502
	144	72	199	2	no slots	removable	holder (accessory)	Noryl reinforced	A 98 35 601
	144	72	200.5	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 35 602
	144	72	246	2	no slots	removable	holder (accessory)	Noryl reinforced	A 98 35 701
	144	72	248.5	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 35 702
 144 x 144	144	144	93	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 55 302
	144	144	152	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 55 502
	144	144	201	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 55 602
	144	144	248	2	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 55 702
 19" (12 TE)	72	144	200	3	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 35 609
	72	144	248	3	no slots	fixed	holder (accessory)	Noryl reinforced	A 98 35 709

**Case type B** Guides ridges on ... (for slide-in mounting – horizontal from the front or vertical from above)

96 x 48	2 sides, 2 guides each
72 x 72	2 sides, 2 guides each
96 x 96	2 sides, 4 guides each
144 x 72	2 sides, 1 guide horizontally, various guides vertically with interruption for horizontal slide-in mounting
144 x 144	2 sides, 1 guide horizontally, various guides vertically with interruption for horizontal slide-in mounting

\*1 for description of the designs see pages 86/87

 design 3 cases are supplied fully assembled (1 case U-section, 1 lid with screws, 1 rear panel, 2 PCB supports with in 1 TE steps,  
 1 plug holder for connectors acc. to DIN 41612 and 2 tapped and threaded strips for fixing the components), control board cutout 68 x 138 mm



## DIN-MODULAR CASES TYPE B ACCESSORIES

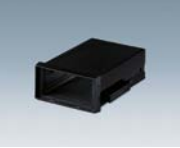

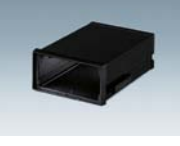


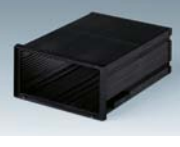

For DIN-MODULAR CASES TYPE B	Article ①	Front panel		Filter plate	
		matt anod. al, 1 pc	red, 1 mm, 2 pcs	red, 3 mm, 1 pc	red, 3 mm, 1 pc
96 x 48		A 91 84 221	A 91 84 213	A 91 84 222	—
	dim. in mm	91,3 x 42,4 x 2	91,3 x 42,4 x 1	91,5 x 42,5 x 2	
72 x 72		A 91 83 321	A 91 83 313	A 91 83 322	—
	dim. in mm	67,8 x 67,8 x 2	67,8 x 67,8 x 2	67,8 x 67,8 x 2	
96 x 96		A 91 84 421	A 91 84 413	A 91 84 422	—
	dim. in mm	91,3 x 91,3 x 2	91,3 x 91,3 x 1	91,5 x 91,5 x 2	
144x 72		A 91 83 531	—	—	A 91 83 532
	dim. in mm	137,5 x 65,8 x 3			137,5 x 65,8 x 3
144 x 144		A 91 85 531	—	—	A 91 85 532
	dim. in mm	137,5 x 137,5 x 3			137,5 x 137,5 x 3

Article	For DIN-MODULAR CASE TYPE B	Version	Part-No.
② Holding frame	96 x 48 (please pay attention to the relevant version)	plastic, 1 pc incl. screws	A 92 84 202
③ Holder	96 x 48 109 long (please pay att. to the relevant version)	steel, 2 pcs incl. thumb nuts	A 92 83 361
	96 x 48 150 long (please pay att. to the relevant version)	steel, 2 pcs incl. thumb nuts	A 92 84 251
	72 x 72 110 long	steel, 2 pcs incl. thumb nuts	A 92 83 341
	72 x 72 150 long	steel, 2 pcs incl. thumb nuts	A 92 83 351
	96 x 96 51 long	steel, 2 pcs incl. thumb nuts	A 92 84 511
	96 x 96 100 long	steel, 2 pcs incl. thumb nuts	A 92 84 541
	96 x 96 151 long	steel, 2 pcs incl. thumb nuts	A 92 84 551
	144 x 72 94 long	steel, with rib, 2 pcs incl. thumb nuts	A 92 83 531
	144 x 72 148 long	steel, with rib, 2 pcs incl. thumb nuts	A 92 83 551
	144 x 72 199 long	steel, with rib, 2 pcs incl. thumb nuts	A 92 83 561
144 x 72 246 long	steel, with rib, 2 pcs incl. thumb nuts	A 92 83 571	
④ Holder	144 x 72 / 144 x 144 / 19" with fixed front frame	Set with 2 pcs	A 92 80 003
⑤ Snap-in cover	96 x 48	PC transparent (IP 53), 1 pc	A 92 84 204
	72 x 72	PC transparent (IP 53), 1 pc	A 92 83 304
	96 x 96	PC transparent (IP 53), 1 pc	A 92 84 404
	144 x 72 with removal front frame	PC transparent (IP 53), 1 pc	A 92 83 504





## DIN-MODULAR CASES TYPE A

DIN-MODULAR CASE TYPE A acc. to DIN IEC 61554		Outside dim. in mm			Version / Equipment guide ridges on ...	Material		Part-No. black	
		W	H	D		case	frame (rear)		
	72 x 36	72	36	57	–	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 21 011
		72	36	75	–	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 21 021
		72	36	100	–	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 21 031
	48 x 48	48	48	57	–	2 sides, 3 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 12 011
		48	48	75	–	2 sides, 3 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 12 021
		48	48	100	–	2 sides, 3 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 12 031
		48	48	114	–	2 sides, 3 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 12 051
		48	48	124	–	2 sides, 3 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 12 061
	96 x 48	96	48	57	I	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 32 011
		96	48	75	I	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 32 021
		96	48	100	I	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 32 031
		96	48	109	I	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 32 041
		96	48	114	I	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 32 051
		96	48	124	I	2 sides, 2 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 32 061
		96	48	131	II	2 sides, 3 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 32 072
	72 x 72	72	72	57	–	2 sides, 9 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 23 011
		72	72	75	–	2 sides, 9 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 23 021
		72	72	100	–	2 sides, 9 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 23 031
		72	72	124	–	2 sides, 9 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 23 061
	96x 96 (does not correspond exactly to DIN IEC 61554)	96	96	57	I	2 sides, 14 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 34 011
		96	96	75	I	2 sides, 14 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 34 021
		96	96	100	I	2 sides, 14 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 34 031
		96	96	124	II	4 sides, 14 / 6 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 34 062
		96	96	179	II	4 sides, 14 / 6 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 34 102
	144 x 72 (does not correspond exactly to DIN IEC 61554)	144	72	57	–	4 sides, 9 / 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 43 011
		144	72	75	–	4 sides, 9 / 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 43 021
		144	72	100	–	4 sides, 9 / 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 43 031
		144	72	109	–	4 sides, 9 / 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 43 041
		144	72	124	–	4 sides, 9 / 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 43 061
		144	72	131	–	4 sides, 9 / 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 43 071
		144	72	156	–	4 sides, 9 / 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 43 091
	144 x 144 (with removable front frame)	144	144	57	–	4 sides, 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 45 011
		144	144	75	–	4 sides, 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 45 021
		144	144	100	–	4 sides, 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 45 031
		144	144	114	–	4 sides, 18 guides each	Noryl (UL 94 V-0)	(UL 94 V-0)	B 60 45 051



## DIN-MODULAR CASE TYPE A ACCESSORIES\*1

For DIN-MODULAR CASE TYPE A	Article ①	Front panel					Rear panel	
		matt anodised al	Noryl V-0 black	plexiglass transp.	plexiglass red transp.	PC infra-red perm.	matt anodised al	Noryl V-0 black
72 x 36	dim. in mm	<b>B 61 21 111</b>	<b>B 61 21 221</b>	<b>B 61 21 331</b>	<b>B 61 21 341</b>	<b>B 61 21 451</b>	<b>B 61 21 112</b>	<b>B 61 21 222</b>
		67.7 x 31.6 x 1.5	67.8 x 31.7 x 2	67.7 x 31.6 x 2	67.7 x 31.6 x 2	67.8 x 31.8 x 2	57.6 x 28.6 x 1	57.6 x 28.7 x 1.5
48 x 48	dim. in mm	<b>B 61 12 111</b>	<b>B 61 12 221</b>	<b>B 61 12 331</b>	<b>B 61 12 341</b>	<b>B 61 12 451</b>	<b>B 61 12 112</b>	<b>B 61 12 222</b>
		43.6 x 43.6 x 1.5	43.7 x 43.7 x 2	43.6 x 43.6 x 2	43.6 x 43.6 x 2	43.7 x 43.7 x 2	42.2 x 29.6 x 1	42.3 x 29.6 x 1.8
96 x 48	dim. in mm	<b>B 61 32 111</b>	<b>B 61 32 221</b>	<b>B 61 32 331</b>	<b>B 61 32 341</b>	<b>B 61 32 451</b>	<b>B 61 32 112</b>	<b>B 61 32 222</b>
		91.5 x 43.4 x 1.5	91.6 x 43.5 x 2	91.5 x 43.4 x 2	91.5 x 43.4 x 2	91.6 x 43.5 x 2	73.5 x 39.6 x 1	73.6 x 39.75 x 1.7
72 x 72	dim. in mm	<b>B 61 23 111</b>	<b>B 61 23 221</b>	<b>B 61 23 331</b>	<b>B 61 23 341</b>	<b>B 61 23 451</b>	<b>B 61 23 112</b>	<b>B 61 23 222</b>
		67.5 x 67.5 x 1.5	67.6 x 67.6 x 2	67.5 x 67.5 x 2	67.5 x 67.5 x 2	67.6 x 67.6 x 2	63.7 x 49.1 x 1	63.8 x 49.2 x 1.7
96 x 96	dim. in mm	<b>B 61 34 111</b>	<b>B 61 34 221</b>	<b>B 61 34 331</b>	<b>B 61 34 341</b>	<b>B 61 34 451</b>	<b>B 61 34 112</b>	<b>B 61 34 222</b>
		90.6 x 90.6 x 1.5	90.7 x 90.7 x 2	90.6 x 90.6 x 2.2	90.6 x 90.6 x 2	90.7 x 90.7 x 2.2	86.7 x 71.7 x 1.5	86.8 x 71.8 x 1.7
142 x 72	dim. in mm	<b>B 61 43 111</b>	<b>B 61 43 221</b>	<b>B 61 43 331</b>	<b>B 61 43 341</b>	<b>B 61 43 451</b>	<b>B 61 43 112</b>	<b>B 61 43 222</b>
		139.2 x 67.3 x 1.5	139.3 x 67.5 x 2	139.2 x 67.3 x 2	139.2 x 67.3 x 2	139.2 x 67.4 x 2	118.9 x 62.6 x 1.5	119.1 x 62.7 x 2
144 x 144	dim. in mm	<b>B 61 45 111</b>	–	<b>B 61 45 331</b>	<b>B 61 45 341</b>	–	<b>B 61 45 112</b>	–
		138 x 138 x 1.5		138 x 138 x 3	138 x 138 x 3		131.3 x 118.6 x 1.5	

Article	For DIN-MODULAR CASES TYPE A	Version	Part-No.
② Protection cover	96 x 48	Polycarbonate UL 94 V-2, transparent	B 61 32 533
	72 x 72	Polycarbonate UL 94 V-2, transparent	B 61 23 533
	96 x 96	Polycarbonate UL 94 V-2, transparent	B 61 34 533
	144 x 72	Polycarbonate UL 94 V-2, transparent	B 61 43 533
	144 x 144	Polycarbonate UL 94 V-2, transparent	B 61 45 533



\*1 supply: 1 pc each (front panel 144 x 144 incl. 4 screws)



## ACCESSORIES FOR ENCLOSURES

Picture	Article Supply	Application / Version	Part-No.
	<b>Belt / pocket clip</b> 1 clip, 1 mounting kit of 2 self-tapping screws $\varnothing$ 2.2 x 6 mm.	Universal clip. 2 boreholes $\varnothing$ 4.2 mm at a centre distance of 20 mm necessary. Recommended for DATEC-POCKET-BOX L, M, S, SHELL-TYPE CASES 85 and 110, FLAT-PACK CASES 100 N	ABS, off-white, RAL 9002 A 91 72 107
			ABS, black, RAL 9005 A 91 72 109
	<b>Combi-Clip</b> 1 set.	Universally usable for small plastic case as a push-on clip for shirt or belt (width 30 mm, thickness approx. 3 mm) and/or as a wall suspension unit. 3-part design: adapter, push-on clip and wall suspension element with screw head covers. The push-on clip is removable. This makes the bottom side of the case freely accessible. 2 boreholes $\varnothing$ 4.2 mm at a centre distance of 9 mm necessary. For enclosures with minimum 4 mm wall thickness or spacer required.	ABS, off-white, RAL 9002 A 91 52 047
			ABS, lava A 91 52 048
			ABS, black, RAL 9005 A 91 52 049
	<b>Wall suspension element</b> 1 wall suspension element, 1 adapter and 1 assembly kit.	Universally applicable, for small plastic cases with 3 mm wall thickness. Rational installation. Wall suspension element pebble grey, adapter off-white.	Recommended for SHELL-TYPE CASE 110 (without battery compartment), FLAT-PACK CASE 120, DESK CASE 190 and COMTEC 120. [adapter dim. = 50 x 100 mm] B 13 50 048
			Recommended for SHELL-TYPE CASE 155/190 (both without battery compartment), FLAT-PACK CASES 150/189/210, DESK CASE 190, DIATEC XS and COMTEC 150/200/290. [adapter dim. = 58 x 124 mm] B 13 60 048
	<b>Wall mounting brackets</b> 4 pcs.	Exterior wall mounting elements for SHELL-TYPE CASES 110, 155 and 190. Fastening to the case by means of the case fixing screws.	PA, pebble grey, RAL 7032 A 92 04 108
	<b>Fastening element for DIN rails</b> 1 pc incl. assembly kit.	For fastening the cases to DIN rails according to DIN EN 60715 TH35 and G32. Recommended for TOPTec starting from size 123 F/H and cases with a length of min. 85 mm.	PA 6, off-white, RAL 9002 B 13 00 017
			PA 6, black, RAL 9005 B 13 00 019
	<b>Hinge</b> 2 pcs, assembly kit.	Left-hand or right-hand hinge. For securing the cover while opening the case. Additional machining (holes) of the cases necessary. Easy assembly. Recommended for DATEC-TERMINAL S, SL and M and cases with a cover's height of min. 18 mm.	PP, off-white, RAL 9002 A 91 93 027
	<b>Lock</b> 1 lock 4-parts incl. assembly kit.	Locking device, optionally to latch on demand. After locking, can only be opened using a tool. Additional machining (bore holes) of the cases is necessary. Easy assembly. Recommended for DATEC-TERMINAL S, SL and M and cases with a cover's height of min. 18 mm.	PA 6 reinforced, off-white, RAL 9002 A 91 93 047
	<b>Holding clamp</b> 1 holding clamp, 2 Torx screws $\varnothing$ 3 x 8 mm (T10).	Universal holding clamp for round tubes up to $\varnothing$ 32 mm / standardised rails according to DIN EN ISO 19054 (25 x 10 x 1.5 mm). Recommended for plastic enclosures with minimum 4 mm wall thickness. 2 drilled holes $\varnothing$ 2.4 mm are required.	PA reinforced, off-white B 43 08 237
			PA reinforced, lava B 43 08 238

NEW



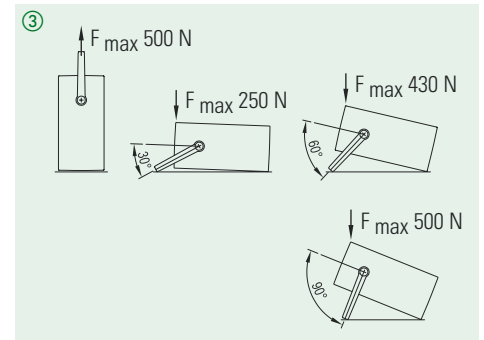
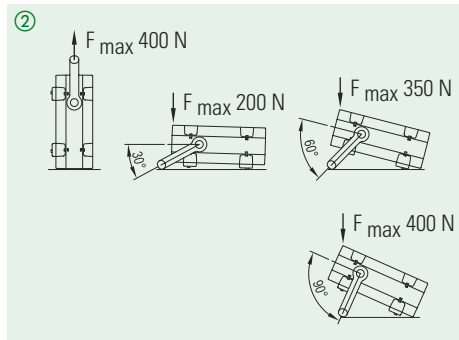
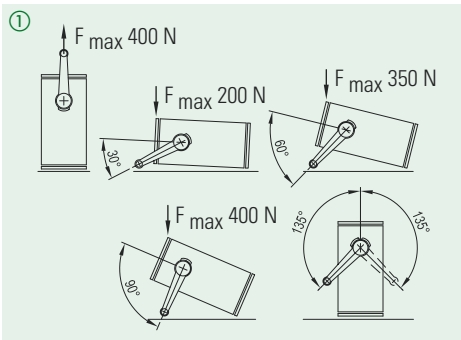
## ACCESSORIES FOR ENCLOSURES

Picture	Article Supply	Application / Version	Part-No.
	<p><b>Adapter for holding device</b></p> <p>1 adapter with self-adhesive film.</p>	<p>For attaching the enclosures to holding devices (A9220029, A9220039, A9220049 and A9220059). For all applications, with self-adhesive film on the rear. With 4-hole grid pattern to match the grid plates of the holding devices with the 4-claws system (separate article).</p> <p>ABS, black</p>	<p>A 92 20 019</p> <p><b>NEW</b></p>
	<p><b>Holding device, ball joint</b></p> <p>1 holding device, assembly kit.</p>	<p>For self-adhesive mounting or screw mounting. The base can be moved horizontally backwards and forwards by 45° and can be rotated around its own axis. The optimum setting can be fixed with the integrated locking screw.</p> <p>Adapter for holding device (4-claws system) required as a separate article for attaching the enclosure.</p> <p>ABS, black</p>	<p>A 92 20 029</p> <p><b>NEW</b></p>
	<p><b>Holding device, bicycle</b></p> <p>1 holding device, 2 rubber shims, 1 allen key.</p>	<p>For screw mounting on the bar with ø 20 to 25 mm. With two rubber shims for correct mounting on the bar or handlebars.</p> <p>Adapter for holding device (4-claws system) required as a separate article for attaching the enclosure.</p> <p>ABS, black</p>	<p>A 92 20 039</p> <p><b>NEW</b></p>
	<p><b>Holding device, flexible swan neck with suction pad</b></p> <p>1 holding device.</p>	<p>The device can be rotated by 360° and can be adjusted horizontally and vertically with an inclination angle of 40° in the viewing angle.</p> <p>With especially sturdy 8 mm aluminium wire – guarantees significantly reduced vibration characteristics and allows higher weight-carrying capacity. The diameter of the suction disk is 70 mm.</p> <p>Adapter for holding device (4-claws system) required as a separate article for attaching the enclosure.</p> <p>black</p>	<p>A 92 20 049</p> <p><b>NEW</b></p>
	<p><b>Holding device with suction pad</b></p> <p>1 holding device.</p>	<p>Grid plate with rear-mounted grid arm and integrated suction disk with 70 mm diameter. Secure mounting on all smooth surfaces. Integrated spring mechanism and novel vacuum return path guarantee that the suction disk is absolutely flat before mounting. The position can be fixed using locking screws.</p> <p>Adapter for holding device (4-claws system) required as a separate article for attaching the enclosure.</p> <p>black</p>	<p>A 92 20 059</p> <p><b>NEW</b></p>
	<p><b>Gripper with holding element</b></p> <p>1 gripper, 1 holding element with self-adhesive louver-type base.</p>	<p>Simply insert a device with a width of 67 to 97 mm and press the laterally adjustable jaws together with your hand. The device can be released at the push of a button.</p> <p>black</p>	<p>A 92 20 069</p> <p><b>NEW</b></p>
	<p><b>Gripper without holding element</b></p> <p>1 gripper, various spacer cushions.</p>	<p>Suitable for all devices with a width of 85 to 170 mm and a height of 60 to 100 mm. With adjustable bridges, including additional extension bridges and spacer cushion. The integrated foam rubber mounting prevents scratches on the enclosure and eliminates rattling noises.</p> <p>With 4-hole grid system to match the grid plates of the holding devices with the 4-claws system (separate article required).</p> <p>black</p>	<p>A 92 20 079</p> <p><b>NEW</b></p>



## ACCESSORIES FOR ENCLOSURES

Picture	Article Supply	Application / Version	Part-No.
	<b>Tilt foot bar</b>  1 tilt foot bar, assembly kit.	ABS, off-white, RAL 9002	A 91 52 057
		ABS, lava	A 91 52 058
		ABS, black, RAL 9005	A 91 52 059
Can be placed in any position to choose an ergonomic reading angle. 2 boreholes $\varnothing$ 4.2 mm at a centre distance of 9 mm are required. For enclosures with a minimum 4 mm wall thickness, or a space is required.			
	<b>Tilt foot bar</b>  1 tilt foot bar, 2 self-tapping screws $\varnothing$ 2.2 x 6 mm.	ABS, off-white, RAL 9002 side length 81 mm	A 92 50 807
		ABS, black, RAL 9005 side length 81 mm	A 92 50 809
		ABS, off-white, RAL 9002 side length 43 mm	A 92 50 817
		ABS, black, RAL 9005 side length 43 mm	A 92 50 819
		clear anti-slide feet for the case, transparent, 2 x $\varnothing$ 6.5 mm	A 92 07 150
Tilt foot bar can be placed in any position to choose an ergonomic reading angle. 2 boreholes $\varnothing$ 4.2 mm at a centre distance of 20 mm are required. Depending on the wall thickness of the cases maybe ring washer are required. Recommended for SHELL-TYPE CASES 110/155, HAND-HELD-BOX P and M and FLAT-PACK CASES. »Special version for DATEC-MOBIL-BOX S/M see page 127.«			
	<b>Handle bar / bail arm</b>  2 side arms, 1 mounting kit. (please order the profile separately)	side arms kit* <sup>1</sup> side arms PA reinforced, off-white, RAL 9002 / push-buttons volcano	A 93 00 722
		side arms kit* <sup>1</sup> side arms PA reinforced, light grey, RAL 7035 / push-buttons volcano	A 93 00 822
		side arms kit* <sup>1</sup> side arms PA reinforced, black, RAL 9005 / push-buttons volcano	A 93 00 522
Length of the side arms: 141.5 mm * <sup>1</sup> Suitable profile, silver matt anodised available as separate part on demand, extrusion length = case width + 3 mm.  The handle can be mounted from the outside and inside. It can be removed in the 135° position. Ratchet with 30° indexing. If the handle is overloaded the ratchet will automatically disengage to avoid damaging the mechanism!			
	<b>Handle bar / bail arm</b>  2 side arms, 1 mounting kit. (please order the profile separately)	side arms* <sup>2</sup> side arms PA reinforced, off-white, RAL 9002 / push-buttons pebble grey, RAL 7032	A 93 00 016
		side arms* <sup>2</sup> side arms PA reinforced, off-white, RAL 9002 / push-buttons off-white, RAL 9002	A 93 00 017
		side arms* <sup>2</sup> side arms PA reinforced, pebble grey, RAL 7032 / push-buttons off-white, RAL 9002	A 93 00 018
		side arms* <sup>2</sup> side arms PA reinforced, black, RAL 9005 / push-buttons black, RAL 9005	A 93 00 015
		Length of the side arms: 128 mm * <sup>2</sup> Suitable aluminium profile, matt anodised as separate part on demand, extrusion length = case width - 16 mm.  Possible to mount from the inside, strong ratchet with 30° indexing.	
	<b>Handle bar / bail arm</b>  2 side arms, 1 mounting kit. (please order the profile separately)	side arms* <sup>3</sup> side arms off-white, RAL 9002 / push-buttons pebble grey, RAL 7032	A 93 00 014
		Length of the side arms: 190 mm * <sup>3</sup> Suitable aluminium profile, anodised as separate part on demand, extrusion length = case width - 26 mm.  Possible to mount from the inside, strong ratchet with 30° indexing. Side arms and mechanism diecast zinc for high load. Push-buttons PA reinforced. Anti-glide inserts in rubber. In order to improve the stability, we recommend glueing the aluminium profiles with the lateral parts.	



















## ACCESSORIES FOR ENCLOSURES

Picture	Article Supply	Application / Version	Part-No.
	<b>Case feet</b>  4 pcs each with self-tapping screws (max. 4 mm wall thickness).	vers. I without tilt leg    ABS (UL 94 HB)    off-white, RAL 9002, rubber insert pebble grey	A 92 57 107
		vers. II with tilt legs    ABS (UL 94 HB)    off-white, RAL 9002, rubber insert pebble grey	A 92 57 207
		vers. I without tilt leg    ABS (UL 94 HB)    light grey, RAL 7035, rubber insert pebble grey	A 92 57 105
		vers. II with tilt legs    ABS (UL 94 HB)    light grey, RAL 7035, rubber insert pebble grey	A 92 57 205
		vers. I without tilt leg    ABS (UL 94 HB)    black, RAL 9005, rubber insert pebble grey	A 92 57 109
		vers. II with tilt legs    ABS (UL 94 HB)    black, RAL 9005, rubber insert pebble grey	A 92 57 209
	<b>Anti-Slide feet</b>  2 pcs each.	ø 6.5, H = 2 mm, Silicone, transparent; suitable for OKW cases with recess: SHELL-TYPE CASES 85 & 110, TOPTEC, FLAT-PACK CASE 150 A	A 92 07 150
		ø 9.5, H = 3.8 mm, 'Soft-Clear' Polyurethane, transparent; suitable for OKW cases with recess: SHELL-TYPE CASES 155 & 190, DESK CASES 138, 190 & 220, COMBI DESK CASES F/H, KEYBOARD HOUSING, FLAT-PACK HOUSINGS 120-189 N/H & 210 A	A 92 10 290
		ø 12, H = 3.5 mm, Silicone, transparent	A 92 12 330
	<b>Ring eyelet</b>  1 pc each.	plastic, volcano, inside ring diameter 2.5 mm, max. wall thickness 3 mm, location hole ø 4 mm required	A 91 00 001
		plastic, volcano, inside ring diameter 4 mm, max. wall thickness 4 mm, location hole ø 5 mm required	A 91 00 002
For universal use. For threading in hand straps and the like. Simple installation with locking hook.			
	<b>Lanyard "Reflex"</b>  1 piece.	silver/black, with quick-action lock, approx. 860 mm long	B 91 00 022
	<b>Lanyard "Woven"</b>  1 piece.	black, with safety closure lock, approx. 900 mm long	B 91 00 053 <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px;">NEW</span>
	<b>Hand strap "Woven"</b>  1 piece.	grey, with quick-action lock, approx. 200 mm long	B 91 00 044
	<b>Key ring</b>  1 piece.	nickel-plated, ø 20.5 mm	A 91 64 001
	<b>Belt strap</b>  1 pc each.	elastic belt with clamp lock, approx. 450 x 35 mm, black	B 71 10 129
		belt strap with push-in buckle, approx. 1,200 x 30 mm, black	B 71 10 139
		belt strap with push-in buckle, approx. 1,500 x 30 mm, black	B 71 10 149
	<b>Wrist strap</b>  1 piece.	elastic belt with velcro, approx. 280 mm long, black	B 91 00 033





## ACCESSORIES FOR ENCLOSURES

Picture	Article Supply	Application / Version	Part-No.
	<b>Battery compartment 4 x AA</b> 1 battery comp. and assembly kit.	ABS, for 4 x 1.5 V mignon cells (AA)  Only for use conventional battery clips – see separate articles: set A 91 61 001 (①) or individual battery clips (④ - ⑨). Suitable for COMTEC 150/200, DATEC-CONTROL S, DATEC-MOBIL-BOX M, ERGO-CASE M/L and HAND-TERMINAL M. As an alternative to battery compartment kit A 93 45 217 (see enclosure).	A 91 74 004
	<b>Set of battery clips</b> 1 set each.	① for 4 x 1.5 V mignon cells (AA), tin-plated, suitable for battery compartment A 91 74 004 (COMTEC 150/200, DATEC-CONTROL S, DATEC-MOBIL-BOX M, ERGO-CASE M/L, HAND-TERMINAL M) as well as HAND-HELD-BOX N with battery compartment and LUX CASE 150/190 with battery compartment	A 91 61 001
		② for 4 x 1.5 V mignon cells (AA), tin-plated, suitable for DATEC-MOBIL-BOX L with battery compartment	A 91 61 002 (as alternative to A 91 90 012)
		③ for 2 x 1.5 V mignon cells (AA), tin-plated, suitable for DATEC-MOBIL-BOX S with battery compartment	A 91 94 001 (as alternative to A 91 90 011)
	<b>Battery clips single pieces</b> 1 pc each.	④ large, double contact, steel tin-plated	A 91 93 003
		⑤ small, single contact, steel tin-plated	A 91 93 004
		⑥ large, double contact, steel nickel-plated	A 91 93 005
		⑦ small, single contact, steel nickel-plated	A 91 93 006
		⑧ large, double contact, CuBez nickel-plated*	A 91 93 008
		⑨ small, single contact, CuBez nickel-plated*	A 91 93 009
		For battery compartment 4 x 1.5 V (AA) A 91 74 004 (COMTEC 150/200, DATEC-CONTROL S, DATEC-MOBIL-BOX M, ERGO-CASE M/L, HAND-TERMINAL M) as well as battery compartment 1.5 V mignon cells (AA) of SHELL-TYPE-CASE, HAND-HELD-BOX N and LUX CASE 150/190.  * Non corrosive material, especially for use in corrosion-causing areas, where salty and acidic atmospheres prevail.	
	<b>Set of battery clips</b> 1 set each.	⑩ for 4 x 1.5 V mignon cells (AA), nickel-plated, as a replacement for battery compartment kit A 93 45 217 (COMTEC 150/200, DATEC-CONTROL S, DATEC-MOBIL-BOX M, ERGO-CASE M/L, HAND-TERMINAL M)	A 91 90 010 (as a replacement for battery comp. kit A 93 45 217)
		⑪ for 2 x 1.5 V mignon-cells (AA), nickel-plated, suitable for DATEC-MOBIL-BOX S with battery compartment	A 91 90 011 (as alternative to A 91 94 001)
		⑫ for 4 x 1.5 V mignon-cells (AA), nickel-plated, suitable for DATEC-MOBIL-BOX L with battery compartment	A 91 90 012 (as alternative to A 91 61 002)
		⑬ for 4 x 1.5 V mignon-cells (AA), nickel-plated, suitable for LUX CASE 150/190 with battery compartment, SHELL-TYPE-CASE V 155, V 190, G 155 and G 190 with battery compartment 4 x AA, HAND-HELD-BOX N with battery compartment	A 91 90 013 (as alternative to battery clips ④ - ⑨)
		⑭ for 2 x 1.5 V mignon-cells (AA), nickel-plated, suitable for SHELL-TYPE-CASE V 155 and G 155 with battery compartment 2 x AA	A 91 90 014 (as alternative to battery clips ④ - ⑨)
	<b>Battery clips single pieces</b> 1 pc each.	⑮ for single contact "Positive", nickel-plated steel	A 91 93 011
		⑯ for single contact "Negative", nickel-plated steel	A 91 93 012
		⑰ for single contact "Left", nickel-plated steel	A 91 93 013
		⑱ for single contact "Right", nickel-plated steel	A 91 93 014
		As a replacement for battery compartment kit 4 x 1.5 V (AA) A 93 45 217 (COMTEC 150/200, DATEC-CONTROL S, DATEC-MOBIL-BOX M, ERGO-CASE M/L, HAND-TERMINAL M) as well as for battery compartments 1.5 V (AA) of SHELL-TYPE-CASE, HAND-HELD-BOX N and LUX CASE 150/190.	



## ACCESSORIES FOR ENCLOSURES





Picture	Article Supply	Application / Version	Part-No.
	<b>Set of battery clips</b> 1 set.	nickel-plated for 2 x N / 2 x AA / 2 x AAA, suitable for DATEC-POCKET-BOX S, M, L or for 2 x AA, suitable for SMART-CASE L, XL	A 91 90 003 as alternative to A 91 90 002
	<b>Battery Clip</b> 1 piece each.	for AA round cells, for mounting on PCBs, nickel-plated spring steel, 1 pc (2 pcs. required per round cell) for AAA round cells, for mounting on PCBs, nickel-plated spring steel, 1 pc (2 pcs. required per round cell)	A 91 93 035 A 91 93 036 <b>NEW</b>
	<b>Polarity reversal protection</b> '+' 1 piece each.	for AA round cells, ABS, off-white, 1 pc required per round cell for AAA round cells, ABS, off-white, 1 pc required per round cell When using the battery clips. Prevents contact if batteries are inserted incorrectly.	A 91 93 033 A 91 93 034 <b>NEW</b>
	<b>Battery spacer</b> 1 piece.	PE foam with one-sided adhesive coating, 50 x 25 x 4 mm For taking up the gap when fitting AA cells instead of a 9 V flat battery in the battery compartment. Recommended for DATEC-POCKET-BOX L, DATEC-MOBIL-BOX S, DATEC-CONTROL XS, HAND-TERMINAL, LUX- CASE 150 and 190, SHELL-TYPE-CASE with battery compartment for AA batteries and HAND-HELD-BOX N.	A 92 50 250
	<b>Plug-in contacts</b> 1 pc each.	① version lateral, cable length approx. 100 mm ② version T-shape, cable length approx. 100 mm ③ version lateral, cable length approx. 152 mm (recommended for battery holder A9156001) Suitable for 9 V flat battery (PP3/LF22). Contact diameters 5.7 / 5.3 mm each.	A 91 60 003 A 91 93 002 A 91 56 002
	<b>Battery compartment kit</b> 1 battery comp., 1 battery comp. lid + M3 screw, 1 holder, 2 sealings, 1 set of battery clips, nickel-plated, 4 self-tapping screws.	3 x 1.5 V mignon cells (AA), outside dim. 93 x 69 mm, ABS, off-white, RAL 9002 3 x 1.5 V mignon cells (AA), outside dim. 93 x 69 mm, ABS, lava 3 x 1.5 V mignon cells (AA), outside dim. 93 x 69 mm, ABS, black, RAL 9005 5 x 1.5 V mignon cells (AA), outside dim. 93 x 98 mm, ABS, off-white, RAL 9002 5 x 1.5 V mignon cells (AA), outside dim. 93 x 98 mm, ABS, lava 5 x 1.5 V mignon cells (AA), outside dim. 93 x 98 mm, ABS, black, RAL 9005 5 x 1.5 V mignon cells (AA), outside dim. 93 x 98 mm, ASA+PC, lava For direct installation in front panels or case walls. Easy battery replacement. Battery compartment lid for snap-in and/or screw-on mounting. Assembly: Screwed to bracket from behind. Alternatively with adhesive foil, on request. Recommended for 3 mm wall thickness where a recess of 1.5 mm is necessary, for the battery compartment is flush with the wall surface. Adjustment of recess or screw length required for greater wall thicknesses.	A 93 36 117 A 93 36 118 A 93 36 119 A 93 38 117 A 93 38 118 A 93 38 119 A 93 38 218 <b>NEW</b>
	<b>Button cell holder</b> 1 piece each.	for button cells ø 20 mm, e.g. CR2016, CR2025, CR2032, horizontal, for mounting on PCBs for button cells ø 23 mm, e.g. CR2320, CR2325, CR2354, horizontal, for mounting on PCBs for button cells ø 12 mm, e.g. CR1216, CR1220, horizontal, for mounting on PCBs for button cells ø 16 mm, e.g. CR1612, CR1620, horizontal, for mounting on PCBs	A 91 93 037 A 91 93 038 A 91 93 039 A 91 93 040 <b>NEW</b>
	<b>Battery holder</b> 1 Battery holder, 2 self-tapping screws ø 2.2 x 4.5 mm.	spring steel, nickel-plated, for 1 x 9 V flat battery (PP3), 1 set	A 91 56 003



## ACCESSORIES FOR ENCLOSURES

Picture	Article Supply	Application / Version	Part-No.
	<b>Battery holders</b> for 1.5 V mono cells (D/LR20) For direct installation in front and rear panels. Battery replacement is considerably easier – housings need not be opened.	for 1.5 V mono cells (D/LR20) PA reinforced, black, operat. up to + 70°C	mounting length 78.6 mm for 1 cell A 93 01 110
			mounting length 143 mm for 2 cells A 93 01 120
			mounting length 203 mm for 3 cells A 93 01 130
	<b>Battery holders</b> for 1.5 V baby cells (C/LR14) PA reinforced, black, operat. temp. up to + 70°C 1 pc each.		mounting length 62 mm for 1 cell A 93 01 210
			mounting length 110 mm for 2 cells A 93 01 220
			mounting length 159 mm for 3 cells A 93 01 230
	<b>Battery holders</b> for 1.5 V mignon cells (AA/LR6) PA reinforced, black, operat. temp. up to + 70°C		mounting length 68.2 mm for 1 cell A 93 01 310
			mounting length 118,6 mm for 2 cells A 93 01 320
			mounting length 169.5 mm for 3 cells A 93 01 330
	<b>Battery holders</b> for flat battery 9 V (PP3/LF22) PA reinforced, black	outside dim. 53.2 x 29 x 58 mm	for 1 battery with 1 drawer A 93 02 510
	<b>Battery holders</b> for flat battery 9 V (PP3/LF22) PA reinforced, black	outside dim. 86 x 29 x 58 mm	for 2 batteries with 2 drawers A 93 02 520
	<b>Battery holders</b> for 1.5 V mignon-cells (AA/LR6) PA reinforced, black 1 pc each.	outside dim. 95.3 x 26 x 61.5 mm	for 4 cells with 1 drawer A 93 02 540
	<b>Battery holders</b> for 1.5 V mono cell (D/LR20) PA reinforced, black	outside dim. 38.3 x 34.9 x 71 mm	battery dim. ø 34.2 x 61.5 mm A 93 03 110
	<b>Battery holders</b> for 1.5 V baby cell (C/LR14) PA reinforced, black	outside dim. 30.2 x 26.7 x 59.2 mm	battery dim. ø 26.2 x 50 mm A 93 03 210
	<b>Battery holders</b> for 1.5 V mignon cell (AA/LR6) PA reinforced, black	outside dim. 17.6 x 25.1 x 60.3 mm	battery dim. ø 14.5 x 50.5 mm A 93 03 310
	<b>Battery holders</b> for 1.5 V micro cell (AAA/LR03) PA reinforced, black 1 pc each.	outside dim. 13.6 x 17 x 52.5 mm	battery dim. ø 10.5 x 44.5 mm A 93 03 410
	<b>Battery holders</b> for flat battery 9 V (PP3/LF22) PA reinforced, black	outside dim. 29.6 x 26.3 x 58.2 mm	battery dim. 26.5 x 17.5 x 48.5 mm A 93 03 510
	<b>Battery holder</b> for 1.5 V mignon cell (AA/LR6) PP, black With spiral spring and fastening holes. Contacts suitable for plug-in contact. 1 pc.	outside dim. 32 x 16 x 66 mm	for 2 batteries A 91 56 001

## ACCESSORIES FOR ENCLOSURES

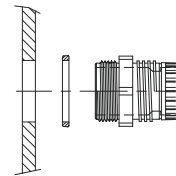
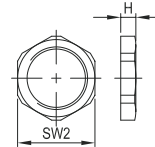
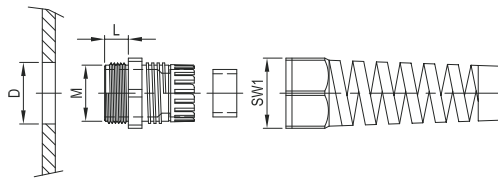
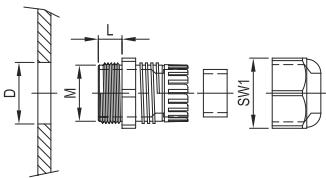
Picture	Article Supply	Application / Version	Part-No.	
	<b>Cable glands with strain relief</b> 1 pc each.	Cable glands of the best material for shake and twist-proof cable lead-in for OKW housings. High protection class IP 68. Polyamide, silver grey, RAL 7001.	M12 x 1.5	C 23 12 418
			M16 x 1.5*1	C 23 16 418
			M16 x 1.5*2	C 23 16 618
			M20 x 1.5*3	C 23 20 418
			M20 x 1.5*4	C 23 20 428
			M25 x 1.5	C 23 25 418
M32 x 1.5	C 23 32 418			
	<b>Cable glands with strain relief and bending protection</b> 1 pc each.	Cable glands of the best material for shake and twist-proof cable lead-in for OKW housings. High protection class IP 68. Polyamide, silver grey, RAL 7001.	M12 x 1.5	C 23 12 518
			M16 x 1.5	C 23 16 518
			M20 x 1.5*3	C 23 20 518
			M20 x 1.5*4	C 23 20 528
M25 x 1.5	C 23 25 518			
	<b>Counternuts</b> 1 pc each.	Polyamide, light grey, RAL 7035.	M12 x 1.5	C 23 12 117
			M16 x 1.5	C 23 16 117
			M20 x 1.5	C 23 20 117
			M25 x 1.5	C 23 25 117
			M32 x 1.5	C 23 32 117
	<b>Sealing ring for external thread</b> 1 pc each.	Mounting between housing and gland flange to preserve the high protection class <b>IP 68</b> of the OKW cable glands. Polyethylene, natural-coloured.	M12 x 1.5	C 23 12 126
			M16 x 1.5	C 23 16 126
			M20 x 1.5	C 23 20 126
			M25 x 1.5	C 23 25 126
			M32 x 1.5	C 23 32 126

Cable gland with strain relief


Cable gland with strain relief and bending protection

Counternuts

Sealing ring for external thread



Thread	Key width	Clamp ranges	Mounting drills				
	all dim. in mm		ø in mm (comparison between PG and metric thread)				
	SW1	SW2		D	L	H	ø in mm
M12 x 1.5	15	17	12.5	8	5	3 - 6.5	PG7 PG9 PG11 PG16 PG21
*1 M16 x 1.5	22	22	16.5	8	5	5 - 10	PG135
*2 M16 x 1.5	22	22	16.5	15	5	5 - 10	13 15.5 19 20.5 23 28.5
*3 M20 x 1.5	24	27	20.5	11	6	6 - 12	12.5 16.5 20.5 25.5 32.5
*4 M20 x 1.5	27	27	20.5	15	6	10 - 14	M12 M16 M20 M25 M32
M25 x 1.5	33	32	25.5	15	6	13 - 18	
M32 x 1.5	42	41	32.5	15	7	18 - 25	

Picture	Article Supply	Application Version	Air flow	Thread	Part-No.
	<b>Pressure compensation element</b> 1 piece each incl. seal and nut.	Pressure compensation element with particularly high air flow to protect sensitive electronics in case of changing weather conditions. Also suitable for large-volume protective cases and control cabinets. High protection rating IP 56. Water entry level > 6 bar. Temperature range -40°C to +110°C. PA6-GF15, light grey, RAL 7035.	6.5 L/min – 0.25 bar 16.5 L/min – 1.0 bar	M6 x 0.75	C 23 06 917 <span style="background-color: yellow; border-radius: 50%; padding: 2px;">NEW</span>
			19.5 L/min – 0.25 bar 43.5 L/min – 1.0 bar	M10 x 1	C 23 10 917





## ACCESSORIES FOR ENCLOSURES

Picture	Article Supply	Application / Version	Part-No.
	<b>Strain relief</b> 1 strain relief, 2 self-tapping screws ø 3 x 6 mm.	suitable for cable ø approx. 5 - 7 mm, PA 6 reinforced, volcano Suitable for ART-CASE base (plan version), DATEC-KEYBOARD, LUX CASE, VARIO-BOX Rear panel 3 and station DATEC-CONTROL XS/S.	A 91 99 005
	<b>USB end cover</b> 1 piece.	TPE, volcano, for USB type A according to DIN IEC 61076-3-107, the end cover clamps on the connector.	A 93 20 008 <b>NEW</b>
	<b>USB cover</b> 1 piece.	PP, off-white, RAL 9002 For universal use. For closing a USB interface. Offers protection from damage and foreign matter. For wall thicknesses up to 5 mm. Rapid installation thanks to metal clips. Machining of the enclosure required. Assembly instructions see our website <a href="http://www.okw.com">www.okw.com</a> .	A 93 20 107 <b>NEW</b>
	<b>Contacts</b> 1 pc each.	contact pin, gold-plated, < 15 A, 1-pole spring contact, gold-plated, F 0.3 N, Hub 1.5 mm, < 3 A, 1-pole spring contact, gold-plated, F 1.7 N, Hub 1.5 mm, < 15 A, 1-pole	A 91 93 030 A 91 93 032 A 91 93 031
	<b>Contacts</b> 1 pc each.	① contacts male, 6-poles ② contacts female, 6-poles	A 91 78 007 A 91 78 008
	<b>Self-tapping screws</b> 1 pc each.	ø 2.2 x 5 mm crosshead screw Z (type PZ1), for plastic ø 2.5 x 6 mm crosshead screw Z (type PZ1), for plastic ø 2.5 x 8 mm crosshead screw Z (type PZ1), for plastic ø 3 x 6 mm crosshead screw Z (type PZ1), for plastic ø 3 x 8 mm crosshead screw Z (type PZ1), for plastic For fastening components, boards and PCBs. Which screws for which OKW enclosure? See our website <a href="http://www.okw.com">www.okw.com</a> .	A 03 04 031 A 03 05 031 A 03 25 080 <b>NEW</b> A 03 06 031 A 03 08 031
	<b>Self-tapping screw</b> 1 pc each.	ø 3 x 8 mm Torx 10 (T10), stainless steel, for plastic For fastening components, boards and PCBs. Or as a substitute for case assembly DIATEC XS (2 pcs required) Which screws for which OKW enclosure? See our website <a href="http://www.okw.com">www.okw.com</a> .	A 03 08 132 <b>NEW</b>
	<b>Torx screwdriver</b> 1 pc each.	Torx 10 (T10), with ergonomic handle original can deviate from photo	A 03 99 T10 <b>NEW</b>



## INDIVIDUAL ACCESSORIES – ON REQUEST –

Picture	Article	Application / Version
	<p><b>Display windows and front panels</b></p>	<p>As well as the display windows in the standard range, we can also supply blanks in all sizes or finished parts according to customers' drawings. The maximum blank size is 500 x 410 mm.</p> <p>Applications:</p> <ul style="list-style-type: none"> <li>- filter and safety screens for electronic displays</li> <li>- IR screens for infrared applications, for example photoelectric barriers, light grilles or sensors</li> <li>- front panels and covers</li> </ul> <p>Materials, for example:</p> <ul style="list-style-type: none"> <li>- Antiflex one-sided anti-reflection surface to avoid undesired light reflections</li> <li>- Lux-Acryl transparent</li> <li>- PC clear or clear V-0 (Europlex F7)</li> <li>- Aluminium</li> <li>- PVC grey</li> <li>- PS off-white</li> </ul> <p>Data sheets on our website <a href="http://www.okw.com">www.okw.com</a></p>
	<p><b>Sealings</b></p>	<p>We also assemble seals in individual dimensions from <math>\varnothing</math> 1.5 mm - 3.0 mm.</p> <p>If required we can also supply conductive seals from <math>\varnothing</math> 1.5 mm - 3.0 mm to improve the electromagnetic compatibility (EMC) of shielded enclosures.</p> <p>We shall be pleased to advise you on finding the right seal.</p>
	<p><b>Fastening materials</b></p>	<p>For individual mounting and configuration, we can offer a wide range of fasteners, e.g. threaded bushes and bolts, spacers, attachment domes, screws etc.</p> <p>All-in service by the specialist – to meet your particular requirements!</p>

These are only some examples of individuality by OKW. We shall also be pleased to perform the necessary modifications and all assembly work to complete your device.

Customising Services see pages 108-119



## KNOB

Knob	Knob ø	Borehole D	Torque (Nm)		Dim. in mm	Colour	Part-No.			
			assembly	function			PA	PC*1	PC*1	PC*1
	33	6 mm	1.5	1.2			B 80 33 068	B 81 33 068		
							B 80 33 069	B 81 33 069		
	1/4"	6 mm	1.5	1.2					B 82 33 061	B 83 33 061
									B 82 33 063	B 83 33 063
									B 82 33 065	B 83 33 065
									B 82 33 066	B 83 33 066
							B 80 33 638	B 81 33 638		
							B 80 33 639	B 81 33 639		
									B 82 33 631	B 83 33 631
									B 82 33 633	B 83 33 633
									B 82 33 635	B 83 33 635
									B 82 33 636	B 83 33 636
	41	6 mm	1.5	1.2			B 80 41 068	B 81 41 068		
							B 80 41 069	B 81 41 069		
									B 82 41 061	B 83 41 061
									B 82 41 063	B 83 41 063
									B 82 41 065	B 83 41 065
									B 82 41 066	B 83 41 066
		8 mm	1.5	1.2			B 80 41 088	B 81 41 088		
							B 80 41 089	B 81 41 089		
									B 82 41 081	B 83 41 081
									B 82 41 083	B 83 41 083
									B 82 41 085	B 83 41 085
									B 82 41 086	B 83 41 086

## COVERS

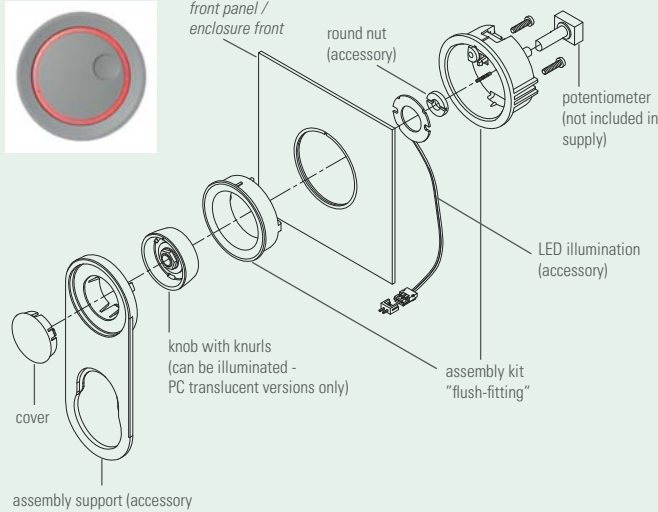
Covers	For knob ø	Dim. in mm				without finger recess		with finger recess		Colour	Part-No.	
		a	b	c	d	a	b	a	b		○	⊙
	33	29	28	9	1.7						B 86 33 008	B 86 33 108
											B 86 33 009	B 86 33 109
	41	37	36	11	1.7						B 86 41 008	B 86 41 108
											B 86 41 009	B 86 41 109

## ASSEMBLY KIT

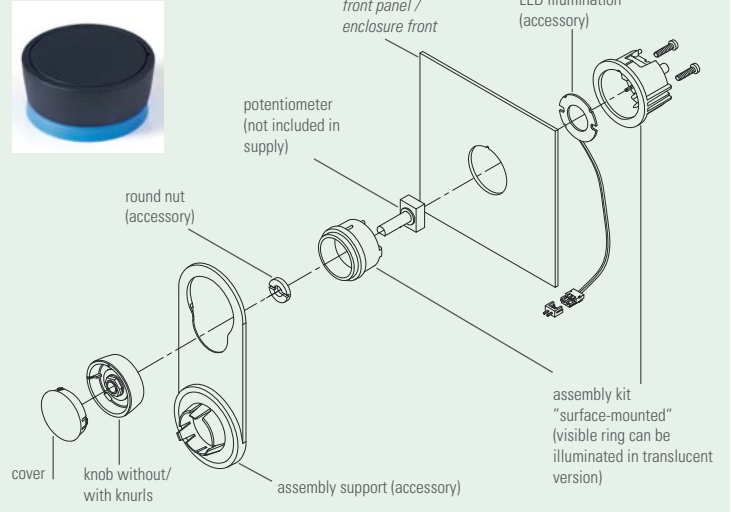
Flush-fitting version	For knob ø	Dim. in mm (for front panel cutouts see drawings on the internet, panel thickness min. 1 mm, max. 3 mm)	Colour visible parts	Part-No.	
				○	⊙
	33				B 87 33 118
				B 87 33 119	
	41			B 87 41 118	
				B 87 41 119	
Surface-mounted version	For knob ø	Dim. in mm (for front panel cutouts see drawings on the internet, panel thickness min. 1 mm, max. 3 mm)	Colour visible parts*2	Part-No.	
				○	⊙
	33				B 87 33 218
				B 87 33 219	
				B 87 33 201	
				B 87 33 203	
				B 87 33 205	
				B 87 33 206	
	41			B 87 41 218	
				B 87 41 219	
				B 87 41 201	
				B 87 41 203	
				B 87 41 205	
				B 87 41 206	



## Flush-fitting



## Surface-mounted



**Minimum components for 1 STAR-KNOB:** 1 knob, 1 cover and 1 assembly kit.

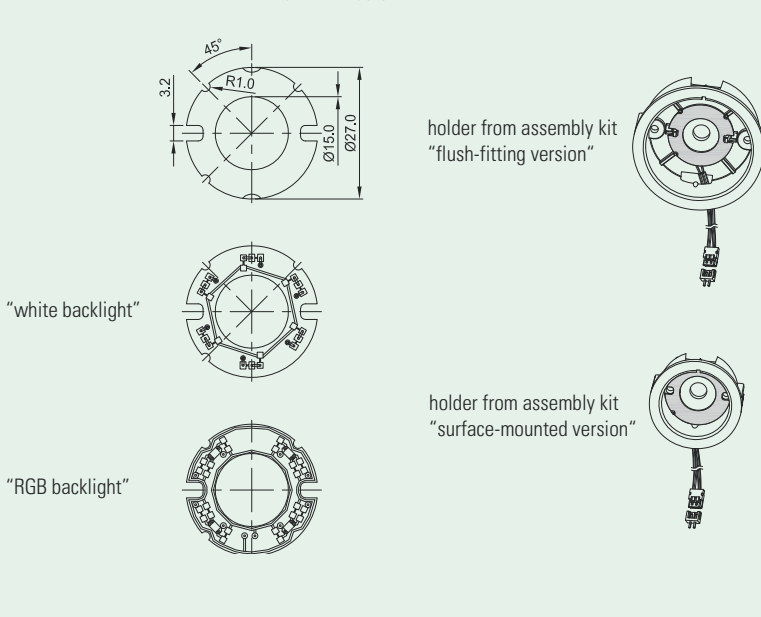
### Colour STAR-KNOBS

- volcano
- diamond
- emerald
- nero
- ruby
- sapphire

## STAR-KNOBS ACCESSORIES

Article	For knob ø	Version / Application	Part-No.												
① LED illumination	33, 41	"white backlight", PCB ø 27 mm with 6 LEDs, SMD-technology, connecting cable 100 mm long, 2-pin connector at the end, incl. PCB connector, for knob/assembly kit in translucent (diamond/ruby/emerald/sapphire)	B 87 33 000												
		"RGB Backlight", PCB ø 27 mm with 4 LEDs, without controller, SMD-technology, connecting cable 150 mm long, 4-pin connector at the end, incl. PCB connector, for knob/assembly kit in translucent (diamond)	B 87 33 002												
② Round nut	33, 41	for mounting of potentiometer at the assembly kit													
		<table border="1" style="border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">G</th> <th style="padding: 2px;">ø</th> <th style="padding: 2px;"></th> </tr> </thead> <tbody> <tr style="background-color: #008000; color: white;"> <td style="padding: 2px;">M 7 x 0.75</td> <td style="padding: 2px;">13.5</td> <td style="padding: 2px;">A 62 07 009</td> </tr> <tr style="background-color: #008000; color: white;"> <td style="padding: 2px;">M 10 x 0.75</td> <td style="padding: 2px;">12.5</td> <td style="padding: 2px;">A 62 10 009</td> </tr> <tr style="background-color: #008000; color: white;"> <td style="padding: 2px;">3/8" - 32G</td> <td style="padding: 2px;">12.5</td> <td style="padding: 2px;">A 62 95 009</td> </tr> </tbody> </table>	G	ø		M 7 x 0.75	13.5	A 62 07 009	M 10 x 0.75	12.5	A 62 10 009	3/8" - 32G	12.5	A 62 95 009	
G	ø														
M 7 x 0.75	13.5	A 62 07 009													
M 10 x 0.75	12.5	A 62 10 009													
3/8" - 32G	12.5	A 62 95 009													
③ Spanner	33, 41	for tightening round nuts	A 63 00 000												
④ Assembly support	33	for assembly and adjusting of "flush-fitting" and "surface-mounted" versions*3	B 87 33 001												
	41	for assembly and adjusting of "flush-fitting" and "surface-mounted" versions*3	B 87 41 001												

PCB with LED illumination (①) – for power supply units with 5 V



\*1 knob can be illuminated individually (flush-fitting version)

\*2 can be illuminated individually in translucent (diamond / ruby / emerald / sapphire) version (surface-mounted version)

\*3 assembly instruction see our website [www.okw.com](http://www.okw.com)





## TOP-KNOB




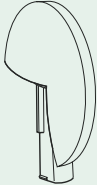






TOP-KNOB for "shaft end" *1	Knob Ø	Dimensions in mm	Max. tightening torque	Borehole	Part-No.	
					nero	volcano
	16		0.4 Nm	4 mm	A 10 16 049	A 10 16 048
			0.4 Nm	6 mm	A 10 16 069	A 10 16 068
	20		0.5 Nm	4 mm	A 10 20 049	A 10 20 048
			0.5 Nm	6 mm	A 10 20 069	A 10 20 068
			0.5 Nm	1/4"	A 10 20 639	A 10 20 638
	24		0.6 Nm	4 mm	A 10 24 049	A 10 24 048
			0.6 Nm	6 mm	A 10 24 069	A 10 24 068
			0.6 Nm	1/4"	A 10 24 639	A 10 24 638
	31		0.6 Nm	4 mm	A 10 31 049	A 10 31 048
			0.6 Nm	6 mm	A 10 31 069	A 10 31 068
			0.6 Nm	1/4"	A 10 31 639	A 10 31 638
	40		0.65 Nm	4 mm	A 10 40 049	A 10 40 048
			0.65 Nm	6 mm	A 10 40 069	A 10 40 068
			0.65 Nm	1/4"	A 10 40 639	A 10 40 638
TOP-KNOB for "flattened end" *2	Knob Ø	Dimensions in mm	Borehole	Part-No.		
	16		6/4.6 mm	A 10 16 649	A 10 16 648	
			6/4.6 mm	A 10 20 649	A 10 20 648	
	20		6/4.6 mm	A 10 20 649	A 10 20 648	
			6/4.6 mm	A 10 24 649	A 10 24 648	
	24		6/4.6 mm	A 10 24 649	A 10 24 648	
			6/4.6 mm	A 10 31 649	A 10 31 648	
	31		6/4.6 mm	A 10 31 649	A 10 31 648	
			6/4.6 mm	A 10 40 649	A 10 40 648	
	40		6/4.6 mm	A 10 40 649	A 10 40 648	
			6/4.6 mm	A 10 40 649	A 10 40 648	

\*1 lateral screw fixing with hex-socket set screw (1.5 mm) and annular cutting edge

\*2 pinned onto the axes with flattened shaft ends



## MARKING ELEMENTS

		Pin	Arrow	Globe	Disk	Wing
						
For TOP-KNOB ø 16 – 40	Colour					
Simple push-on marking elements, subsequent replacement is also possible.		A 11 01 003	A 11 05 003			A 11 04 003
		A 11 01 004	A 11 05 004	A 11 02 004	A 11 03 004	
		A 11 01 005	A 11 05 005			
		A 11 01 006	A 11 05 006			
		A 11 01 007	A 11 05 007	A 11 02 007	A 11 03 007	



## COM-KNOBS WITH RECESS / WITHOUT RECESS

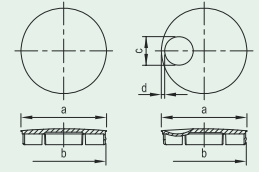
## COVER

PA 6 reinforced



PA 6 reinforced

without/  
with  
finger  
recess



Knob ø	Dim. in mm without recess	with recess	Borehole D							
16		4 mm, without chamfer	A 30 16 049	A 31 16 049	A 30 16 048	A 31 16 048	a = 11.5		A 32 16 003	
		6 mm, with chamfer	A 30 16 069	A 31 16 069	A 30 16 068	A 31 16 068	b = 11.0		A 32 16 004	
		1/4", with chamfer	A 30 16 639	A 31 16 639	A 30 16 638	A 31 16 638			A 32 16 005	
20		4 mm, without chamfer	A 30 20 049	A 31 20 049	A 30 20 048	A 31 20 048	a = 14.0		A 32 20 003	
		6 mm, with chamfer	A 30 20 069	A 31 20 069	A 30 20 068	A 31 20 068	b = 13.5		A 32 20 004	
		1/4", with chamfer	A 30 20 639	A 31 20 639	A 30 20 638	A 31 20 638			A 32 20 005	
23		4 mm, without chamfer	A 30 23 049	A 31 23 049	A 30 23 048	A 31 23 048	a = 17.0		A 32 23 003	
		6 mm, without chamfer	A 30 23 069	A 31 23 069	A 30 23 068	A 31 23 068	b = 16.5		A 32 23 004	
		1/4", without chamfer	A 30 23 639	A 31 23 639	A 30 23 638	A 31 23 638			A 32 23 005	
31		6 mm, without chamfer	A 30 31 069	A 31 31 069	A 30 31 068	A 31 31 068	a = 25.0		A 32 31 003	
		1/4", without chamfer	A 30 31 639	A 31 31 639	A 30 31 638	A 31 31 638	b = 24.5		A 32 31 004	
									A 32 31 005	
40		6 mm, without chamfer	A 30 40 069	A 31 40 069	A 30 40 068	A 31 40 068	a = 34.0		A 32 40 003	A 32 40 103
		8 mm, without chamfer	A 30 40 089	A 31 40 089	A 30 40 088	A 31 40 088	b = 33.5		A 32 40 004	A 32 40 104
							c = 11.4		A 32 40 005	A 32 40 105
50		6 mm, without chamfer	A 30 50 069	A 31 50 069	A 30 50 068	A 31 50 068	a = 44.0		A 32 50 003	A 32 50 103
		8 mm, without chamfer	A 30 50 089	A 31 50 089	A 30 50 088	A 31 50 088	b = 43.5		A 32 50 004	A 32 50 104
							c = 12.9		A 32 50 005	A 32 50 105
						d = 2.8		A 32 50 006	A 32 50 106	
								A 32 50 007	A 32 50 107	
								A 32 50 009	A 32 50 109	



PEAK	DISK	DIAL	STATOR	NUT COVER
<p>PA 6 reinforced only for COM-KNOBS with recess</p>	<p>ABS ...010 = marking white</p>	<p>Polycarbonate ...0 = symbols black ...9 = symbols silver</p>	<p>Aluminium marking black</p>	<p>ABS ...010 = marking white ...018 = marking black</p>
<p>a = 3.9</p> <ul style="list-style-type: none"> <li> A 33 16 003</li> <li> A 33 16 004</li> <li> A 33 16 005</li> <li> A 33 16 006</li> <li> A 33 16 007</li> <li> A 33 16 009</li> </ul>	<p>a = 23.0 b = 10.0 c = 1.3</p>	<p>a = 31.0 b = 14.5 c = 10.0 d = 2.5 e = 1.7</p> <p>(ø 16 with moulded-on nut cover)</p>	<p>a = 16.0 b = 10.1 c = 15.5</p>	<p>a = 19.3 b = 17.6 c = 10.0 d = 3.3 e = 4.3</p> <p>a = 16.4 b = 14.6 c = 10.0 c = 3.3 e = 4.3 f = 10.2</p>
<p>a = 4.0</p> <ul style="list-style-type: none"> <li> A 33 20 003</li> <li> A 33 20 004</li> <li> A 33 20 005</li> <li> A 33 20 006</li> <li> A 33 20 007</li> <li> A 33 20 009</li> </ul>		<p>a = 36.0 b = 12.0 c = 1.5</p>	<p>a = 20.0 b = 10.1 c = 18.0</p>	
<p>a = 4.0</p> <ul style="list-style-type: none"> <li> A 33 20 003</li> <li> A 33 20 004</li> <li> A 33 20 005</li> <li> A 33 20 006</li> <li> A 33 20 007</li> <li> A 33 20 009</li> </ul>	<p>a = 31.0 b = 16.5 c = 1.3</p>	<p>a = 40.0 b = 16.3 c = 1.3</p>	<p>a = 23.0 b = 10.2 c = 20.0</p>	
<p>a = 4.0</p> <ul style="list-style-type: none"> <li> A 33 20 003</li> <li> A 33 20 004</li> <li> A 33 20 005</li> <li> A 33 20 006</li> <li> A 33 20 007</li> <li> A 33 20 009</li> </ul>	<p>a = 40.0 b = 16.5 c = 1.6</p>	<p>a = 49.9 b = 16.5 c = 1.5</p>		
<p>a = 4.0</p> <ul style="list-style-type: none"> <li> A 33 20 003</li> <li> A 33 20 004</li> <li> A 33 20 005</li> <li> A 33 20 006</li> <li> A 33 20 007</li> <li> A 33 20 009</li> </ul>	<p>a = 50.1 b = 24.0 c = 1.8</p>			
<p>a = 4.0</p> <ul style="list-style-type: none"> <li> A 33 20 003</li> <li> A 33 20 004</li> <li> A 33 20 005</li> <li> A 33 20 006</li> <li> A 33 20 007</li> <li> A 33 20 009</li> </ul>				

**Standard colours COM-KNOBS**

COM-KNOBS

Nero

Volcano

Covers without/with finger recess

Marking element "Peak"

Coral

Beach

Lagoon

Sky

Mineral

Nero

Disk, Nut cover

Black, RAL 9005

Dust grey, RAL 7037

Dial

Transparent, bright surface  
with/without marking





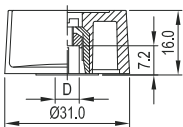
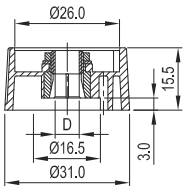
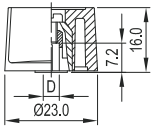
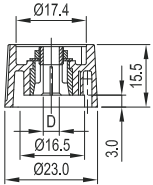
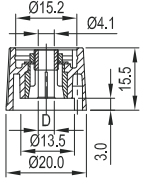
ROUND KNOB		WING KNOB		SPINDLE-SHAPED KNOB		COVER			
ABS (UL 94 HB)									
ABS (UL 94 HB) ...100 = indicator line white, otherwise in black									
Knob ø	Shape	Borehole D					without indicator line	with indicator line	
9		<b>ROUND KNOB</b> 4 mm, with chamfer		A 26 09 040			a = 8.0 b = 6.5 c = 2.6	<ul style="list-style-type: none"> <li> A 41 10 000</li> <li> A 41 10 002</li> <li> A 41 10 004</li> <li> A 41 10 005</li> <li> A 41 10 006</li> <li> A 41 10 007</li> <li> A 41 10 008</li> </ul>	<ul style="list-style-type: none"> <li> A 41 10 100</li> <li> A 41 10 102</li> <li> A 41 10 104</li> <li> A 41 10 105</li> <li> A 41 10 106</li> </ul>
10		<b>ROUND KNOB</b> 3 mm, with chamfer 1/8", with chamfer 4 mm, with chamfer	A 25 10 030 A 25 10 320 A 25 10 040	A 26 10 030 A 26 10 320 A 26 10 040	A 25 10 038 A 25 10 048	A 26 10 038 A 26 10 048			
13.5		<b>ROUND KNOB</b> 4 mm, with chamfer 6 mm, with chamfer	A 25 13 040 A 25 13 060	A 26 13 040 A 26 13 060	A 25 13 048 A 25 13 068	A 26 13 048 A 26 13 068	a = 11.2 b = 9.2 c = 3.0	<ul style="list-style-type: none"> <li> A 41 13 000</li> <li> A 41 13 002</li> <li> A 41 13 004</li> <li> A 41 13 005</li> <li> A 41 13 006</li> <li> A 41 13 007</li> <li> A 41 13 008</li> </ul>	<ul style="list-style-type: none"> <li> A 41 13 100</li> <li> A 41 13 102</li> <li> A 41 13 104</li> <li> A 41 13 105</li> <li> A 41 13 106</li> </ul>
		<b>WING KNOB</b> 6 mm, with chamfer		A 28 13 060					
16		<b>ROUND KNOB</b> 4 mm, without chamfer 6 mm, with chamfer 1/4", with chamfer	A 25 16 040 A 25 16 060 A 25 16 630	A 26 16 040 A 26 16 060 A 26 16 630	A 25 16 068 A 25 16 638	A 26 16 068	a = 13.5 b = 11.2 c = 4.0	<ul style="list-style-type: none"> <li> A 41 16 000</li> <li> A 41 16 002</li> <li> A 41 16 004</li> <li> A 41 16 005</li> <li> A 41 16 006</li> <li> A 41 16 007</li> <li> A 41 16 008</li> </ul>	<ul style="list-style-type: none"> <li> A 41 16 100</li> <li> A 41 16 102</li> <li> A 41 16 104</li> <li> A 41 16 105</li> <li> A 41 16 106</li> <li> A 41 16 107</li> <li> A 41 16 108</li> </ul>
		<b>WING KNOB</b> 6 mm, with chamfer		A 28 16 060					
		<b>SPINDLE-SHAPED KNOB</b> 3 mm, with chamfer 4 mm, with chamfer	A 23 16 040	A 24 16 030 A 24 16 040		A 24 16 048	a = 14.0 b = 1.2 c = 4.0	<ul style="list-style-type: none"> <li> A 50 16 000</li> <li> A 50 16 108</li> </ul>	<ul style="list-style-type: none"> <li> A 50 16 100</li> <li> A 50 16 108</li> </ul>



ARROW DISK	DISK	DIAL	STATOR	NUT COVER
<p>ABS (UL 94 HB)</p>	<p>ABS ...010 = indicator line white</p>	<p>Polycarbonate ...0 = symbols black ...9 = symbols silver</p>	<p>Aluminium indicator line black</p>	<p>ABS ...010 = indicator line white ...018 = indicator line black</p>
<p>a = 7.0 b = 10.1 c = 7.0</p> <p>A 42 10 000 A 42 10 002 A 42 10 008</p>		<p>a = 20.0 b = 7.0 c = 1.5</p> <p>(only for knob ø 10)</p> <p>A 44 10 060</p>		<p>a = 15.5 b = 14.0 c = 7.0 d = 2.9 e = 3.7</p> <p>(only for knob ø 10)</p> <p>A 75 10 000 A 75 10 010 A 75 10 018</p>
<p>a = 9.0 b = 13.6 c = 8.0</p> <p>A 42 13 000 A 42 13 002 A 42 13 008</p>		<p>a = 26.0 b = 8.0 c = 1.5</p> <p>A 44 13 010 A 44 13 020 A 44 13 049 A 44 13 060</p>		<p>a = 17.5 b = 15.7 c = 9.0 d = 3.2 e = 4.3</p> <p>A 75 13 000 A 75 13 010 A 75 13 018</p>
<p>a = 10.5 b = 16.3 c = 10.0</p> <p>A 42 16 000 A 42 16 002 A 42 16 008</p>	<p>a = 31.0 b = 16.5 c = 1.3</p> <p>A 73 16 000 A 73 16 010</p>	<p>a = 31.0 b = 14.5 c = 10.0 d = 2.5 e = 1.7</p> <p>(ø 16 with moulded on nut cover)</p> <p>A 44 16 001 A 44 16 010 A 44 16 020 A 44 16 060</p>	<p>a = 16.0 b = 10.1 c = 15.5</p> <p>A 60 16 019</p>	<p>a = 19.3 b = 17.6 c = 10.0 d = 3.3 e = 4.3</p> <p>a = 16.4 b = 14.6 c = 10.0 d = 3.3 e = 4.3 f = 10.2</p> <p>A 75 16 000 A 75 16 010 A 75 16 018 A 76 16 000 A 76 16 008</p>
				<p>a = 16.0 b = 14.8 c = 8.3 d = 3.3 e = 4.3</p> <p>A 51 16 000</p>



ROUND KNOB		SPINDLE-SHAPED KNOB				COVER				
ABS (UL 94 HB)						ABS (UL 94 HB) ...100 = indicator line white, otherwise in black				
Knob Ø	Shape	Borehole D					without indicator line	with indicator line		
20	<b>ROUND KNOB</b>	4 mm, without chamfer	A 25 20 040	A 26 20 040			a = 17.5	A 41 20 000	A 41 20 100	
		6 mm, with chamfer	A 25 20 060	A 26 20 060	A 25 20 068	A 26 20 068	b = 15.2	A 41 20 002	A 41 20 102	
		1/4", with chamfer	A 25 20 630				c = 5.5		A 41 20 104	
23	<b>ROUND KNOB</b>	4 mm, without chamfer	A 25 23 040	A 26 23 040			a = 20.4	A 41 23 000	A 41 23 100	
		6 mm, without chamfer	A 25 23 060	A 26 23 060	A 25 23 068	A 26 23 068	b = 17.4	A 41 23 002	A 41 23 102	
		1/4", without chamfer	A 25 23 630		A 25 23 638		c = 6.5	A 41 23 004		
23	<b>SPINDLE-SHAPED KNOB</b>	4 mm, with chamfer		A 24 23 040			a = 20.9		A 50 23 000	A 50 23 100
		6 mm, with chamfer		A 24 23 060		A 24 23 068	b = 1.2		A 50 23 008	A 50 23 108
							c = 6.5			
31	<b>ROUND KNOB</b>	6 mm, without chamfer	A 25 31 060	A 26 31 060	A 25 31 068	A 26 31 068	a = 28.4		A 41 31 000	A 41 31 100
		1/4", without chamfer	A 25 31 630				b = 26.0		A 41 31 002	A 41 31 102
							c = 9.0		A 41 31 005	
31	<b>SPINDLE-SHAPED KNOB</b>	6 mm, with chamfer		A 24 31 060		A 24 31 068	a = 29.0		A 50 31 000	A 50 31 100
							b = 1.4			A 50 31 107
							c = 9.5		A 50 31 008	A 50 31 108





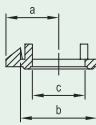
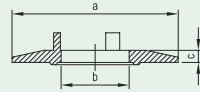
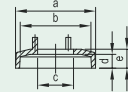





ARROW DISK	DISK		DIAL	STATOR	NUT COVER	
<p>ABS (UL 94 HB)</p>	<p>ABS ...010 = indicator line white</p>		<p>Polycarbonate ...0 = symbols black ...9 = symbols silver</p>	<p>Aluminium indicator line black</p>	<p>ABS</p>	
<p>a = 13.0 b = 20.0 c = 12.0</p> A 42 20 000 A 42 20 002 A 42 20 008	A 73 23 010 		<p>a = 36.0 b = 12.0 c = 1.5</p> A 44 20 001 A 44 20 010 A 44 20 060	<p>a = 20.0 b = 10.1 c = 18.0</p> <p>A 60 20 019</p>	A 51 23 000 A 51 23 008	
<p>a = 14.3 b = 23.0 c = 16.5</p> A 42 23 000 A 42 23 002 A 42 23 008	<p>a = 31.0 b = 16.5 c = 1.3</p> A 73 23 010 	<p>a = 40.0 b = 16.3 c = 1.3</p> A 44 23 010 A 44 23 020 A 44 23 039 A 44 23 060	<p>a = 23.0 b = 10.2 c = 20.0</p> <p>A 60 23 019</p>	<p>a = 23.3 b = 20.0 c = 13.7 d = 3.3 e = 4.3</p> A 51 23 000 A 51 23 008		
<p>a = 19.5 b = 31.0 c = 16.5</p> A 42 31 000 A 42 31 002 A 42 31 008	<p>a = 40.0 b = 16.5 c = 1.6</p> A 73 31 000 A 73 31 010	<p>a = 49.9 b = 16.5 c = 1.5</p> A 44 31 010 A 44 31 060		<p>a = 31.1 b = 28.0 c = 15.5 d = 3.3 e = 4.8</p> A 51 31 000 A 51 31 008		



ROUND KNOB		SPINDLE-SHAPED KNOB				COVER			
ABS (UL 94 HB)				ABS (UL 94 HB) ...100 = indicator line white, otherwise in black					
Knob ø	Shape	Borehole D					without indicator line	with indicator line	
40	<b>ROUND KNOB</b>	6 mm, without chamfer 8 mm, without chamfer	A 25 40 060 A 25 40 080	A 26 40 060	A 25 40 068	A 26 40 068	a = 37.4 b = 34.4 c = 12.5	 A 41 40 000 A 41 40 002 A 41 40 007 A 41 40 008	A 41 40 100
	<b>SPINDLE-SHAPED KNOB</b>	6 mm, with chamfer		A 24 40 060		A 24 40 068	a = 37.9 b = 1.6 c = 13.0	 A 50 40 000 A 50 40 008	A 50 40 100 A 50 40 108
50	<b>ROUND KNOB</b>	6 mm, without chamfer	A 25 50 060	A 26 50 060	A 25 50 068		a = 47.4 b = 44.4 c = 14.5	 A 41 50 000 A 41 50 008	A 41 50 100 A 41 50 107

## ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS

Article	Version / Application	Dim. in mm	Part-No.
	Locking device with stator For round knobs and wing knobs size 16 with dial only. Transparent, marking black.		A 61 16 010
	Locking device For universal use of round knobs, wing knobs and COM-KNOBS with dial.		B 61 00 000
	Adjusting key For correct adjusting of combination knobs (round knobs) with indicator line, dial and arrow disk. Knob mounting without difficulties.		Round knobs ø D <sub>1</sub> D <sub>2</sub> D <sub>3</sub> 10 13.5 16 A 64 02 005 20 23 31 A 64 03 005

ARROW DISK	DISK	NUT COVER
<p>ABS (UL 94 HB)</p> 	<p>ABS ...010 = indicator line white</p> 	<p>ABS</p> 
 <p>a = 24.5 b = 40.0 c = 25.0</p> <p><b>A 42 40 000</b></p>  <p><b>A 42 40 008</b></p>	 <p>a = 50.1 b = 24.0 c = 1.8</p> <p><b>A 73 40 010</b></p>	  <p>a = 40.3 b = 36.8 c = 20.0 d = 3.1 e = 4.6</p> <p><b>A 51 40 000</b></p>

**Standard colours knobs**


Combination knobs

Black, RAL 9005 


Dust grey, RAL 7037 

Covers (depends on size/type)

Black, RAL 9005 

Red, RAL F12/0-10 

Yellow, RAL F12/0-1 

Green, RAL F12/0-43 


Blue, RAL 5012 

Pebble grey, RAL 7032 

Dust grey, RAL 7037 


Arrow disk

Black, RAL 9005 


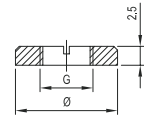


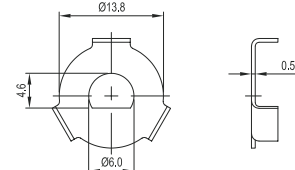
Red, RAL F12/0-10 

Dust grey, RAL 7037 

Dial

Transparent, bright surface  
with/without symbols 

**ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS**

Article	Version / Application	Dim. in mm	Part-No.												
 <p>Round nut</p>	<p>For mounting of potentiometer at front panels. It fits under knob and nut cover (round knobs / wing knobs / spindle-shaped knobs / COM-KNOBS <math>\varnothing</math> 10 / 13.5 / 16 / 20 / 23 / 31 / 40 / 50).</p>		<table border="1"> <thead> <tr> <th>G</th> <th>Ø</th> <th>Part-No.</th> </tr> </thead> <tbody> <tr> <td>M7 x 0.75</td> <td>13.5</td> <td><b>A 62 07 009</b></td> </tr> <tr> <td>M10 x 0.75</td> <td>12.5</td> <td><b>A 62 10 009</b></td> </tr> <tr> <td>3/8" - 32G</td> <td>12.5</td> <td><b>A 62 95 009</b></td> </tr> </tbody> </table>	G	Ø	Part-No.	M7 x 0.75	13.5	<b>A 62 07 009</b>	M10 x 0.75	12.5	<b>A 62 10 009</b>	3/8" - 32G	12.5	<b>A 62 95 009</b>
G	Ø	Part-No.													
M7 x 0.75	13.5	<b>A 62 07 009</b>													
M10 x 0.75	12.5	<b>A 62 10 009</b>													
3/8" - 32G	12.5	<b>A 62 95 009</b>													
 <p>Spanner</p>	<p>For tightening round nuts.</p>		<b>A 63 00 000</b>												
 <p>Torsion protection</p>	<p>For torsion-proved mounting of knobs on profiled axes 6 / 4.6 mm. Suitable for round and wing knobs sizes <math>\varnothing</math> 20 to 50 with 6 mm borehole (not suitable for COM-KNOBS).</p>		<p>Bore</p> <table border="1"> <tbody> <tr> <td>6 / 4.6</td> <td><b>A 66 00 064</b></td> </tr> </tbody> </table>	6 / 4.6	<b>A 66 00 064</b>										
6 / 4.6	<b>A 66 00 064</b>														


**WITH INSERT EMBELLISHER PLATE/CAP AND LATERAL SCREW FIXING**

Picture	Material	Dim. in mm	Part-No.																		
	Duroplast black, insert embelisher plate aluminium.	 <table border="1"> <thead> <tr> <th>D</th> <th>d1</th> <th>r</th> <th>H</th> <th>h1</th> <th>h2</th> </tr> </thead> <tbody> <tr> <td>28</td> <td>6</td> <td>10.5</td> <td>16</td> <td>3.5</td> <td>13</td> </tr> </tbody> </table>	D	d1	r	H	h1	h2	28	6	10.5	16	3.5	13	A 13 28 160						
D	d1	r	H	h1	h2																
28	6	10.5	16	3.5	13																
	Duroplast black, insert embelisher plate aluminium.	 <table border="1"> <thead> <tr> <th>D</th> <th>d1</th> <th>r</th> <th>H</th> <th>h1</th> <th>h2</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>6</td> <td>5.3</td> <td>16</td> <td>3.5</td> <td>13</td> </tr> <tr> <td>24.3</td> <td>6</td> <td>9.5</td> <td>16</td> <td>3.5</td> <td>13.2</td> </tr> </tbody> </table>	D	d1	r	H	h1	h2	20	6	5.3	16	3.5	13	24.3	6	9.5	16	3.5	13.2	A 13 20 260 A 13 24 260
D	d1	r	H	h1	h2																
20	6	5.3	16	3.5	13																
24.3	6	9.5	16	3.5	13.2																
	Duroplast black, marking element white, insert embelisher plate aluminium.	 <table border="1"> <thead> <tr> <th>D</th> <th>d1</th> <th>r</th> <th>H</th> <th>h1</th> <th>h2</th> <th>l</th> </tr> </thead> <tbody> <tr> <td>23.9</td> <td>6</td> <td>8.2</td> <td>16</td> <td>3.5</td> <td>13</td> <td>18</td> </tr> </tbody> </table>	D	d1	r	H	h1	h2	l	23.9	6	8.2	16	3.5	13	18	A 13 18 560				
D	d1	r	H	h1	h2	l															
23.9	6	8.2	16	3.5	13	18															
	Duroplast black, embelisher cap aluminium.	 <table border="1"> <thead> <tr> <th>D</th> <th>d</th> <th>H</th> <th>h</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>6</td> <td>10</td> <td>8</td> </tr> </tbody> </table>	D	d	H	h	21	6	10	8	A 13 21 260										
D	d	H	h																		
21	6	10	8																		
	Thermoplastic black, embelisher cap aluminium.	 <table border="1"> <thead> <tr> <th>D</th> <th>d</th> <th>H</th> <th>h</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>6</td> <td>12.4</td> <td>10</td> </tr> </tbody> </table>	D	d	H	h	24	6	12.4	10	A 16 24 260										
D	d	H	h																		
24	6	12.4	10																		
	Thermoplastic black, embelisher cap aluminium.	 <table border="1"> <thead> <tr> <th>D</th> <th>d1</th> <th>d2</th> <th>H</th> <th>h1</th> <th>h2</th> </tr> </thead> <tbody> <tr> <td>18.2</td> <td>6</td> <td>15</td> <td>14.2</td> <td>2</td> <td>12.4</td> </tr> </tbody> </table>	D	d1	d2	H	h1	h2	18.2	6	15	14.2	2	12.4	A 13 18 260						
D	d1	d2	H	h1	h2																
18.2	6	15	14.2	2	12.4																
	Duroplast black, embelisher cap aluminium.	 <table border="1"> <thead> <tr> <th>D</th> <th>d1</th> <th>d2</th> <th>H</th> <th>h1</th> <th>h2</th> </tr> </thead> <tbody> <tr> <td>14.1</td> <td>4</td> <td>11.4</td> <td>14</td> <td>2</td> <td>12</td> </tr> </tbody> </table>	D	d1	d2	H	h1	h2	14.1	4	11.4	14	2	12	A 13 14 240						
D	d1	d2	H	h1	h2																
14.1	4	11.4	14	2	12																



## WITH INSERT EMBELLISHER PLATE/CAP AND LATERAL SCREW FIXING

Picture	Material	Dim. in mm	Part-No.						
	Thermoplastic aluminium cap, indicator line black.		D	d	H	h			
			15.9	4	15	12.7	A 14 16 449		
			15.9	6	15.2	12.4	A 14 16 469		
	Thermoplastic aluminium cap, indicator line black.		D	d	H1	h1	H2	h2	
			22.1	6	14.3	12	-	-	A 14 21 469
			22.2	6	-	12	17.9	15.5	A 14 22 469
	Thermoplastic aluminium cap, indicator line black.		D	d	H	h			
			31.9	6	14	12	A 14 32 469		
	Thermoplastic aluminium cap, indicator line black.		D	d	H	h			
			12	4	7.2	5.5	A 14 12 441		
			12	6	7.1	5.6	A 14 12 461		
	Thermoplastic aluminium cap, indicator line black.		D	d1	d2	H	h1	h2	
			17.8	6	13	12	3.6	10.1	A 14 18 461
			22.5	6	14	13.3	3	11	A 14 22 461
			37.8	6	32.8	15.9	3	13.5	A 14 38 461
	Thermoplastic aluminium cap, indicator line black.		D	d1	d2	H	h1	h2	
			18.7	6	12.9	12	3.3	9.5	A 14 18 261
			22.7	6	14	13.1	2.9	11.1	A 14 22 261
			32.8	6	15.5	14.4	3	12.3	A 14 32 261
38.9	6	33	16	3	13.5	A 14 38 261			
	Thermoplastic aluminium cap black anodised, indicator line white.		D	d1	d2	H	h1	h2	
			18.6	6	13	12	3.3	9.5	A 14 18 260
			22.8	6	14	13	3	11	A 14 22 260
			33	6	15.5	14.3	3	12.5	A 14 32 260





## WITH LATERAL SCREW FIXING

Picture	Material	Dim. in mm	Part-No.								
	Duroplast black, indicator line white.		D	d1	d2	H	h1	h2	A 13 19 260		
	Thermoplastic black, red marking.		D	d1	d2	H	h1	h2	A 13 16 240		
	Thermoplastic black.		D	d1	d2	H	h1	h2	A 13 21 160		
	Thermoplastic black.		D	d	H	h1	h2	l	A 13 10 560		
	Thermoplastic black.		D	d1	d2	H	h1	H2	l	A 16 85 540	
	Duroplast black, indicator line white.		D	d1	d2	H	h1	h2	l	A 13 13 540	
	Duroplast black, indicator line white.		D	d1	d2	H	h1	h2	l	A 13 13 560	
	Thermoplastic black, indicator line white.		D	d1	d2	H	h1	h2	l	A 13 12 560	
	Duroplast black, indicator line white.		D	d1	d2	H	h1	h2	l	A 13 19 560	
	Duroplast black, indicator line white.		D	d1	d2	H	h1	h2	l	A 13 21 060	
	Duroplast black, indicator line white.		D	d1	d2	d3	H	h1	h2	h3	A 13 31 660
	Duroplast black, indicator line white.		D	d1	d2	d3	H	h1	h2	h3	A 13 42 660



## WITH LATERAL SCREW FIXING

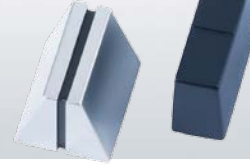
Picture	Material	Dim. in mm									Part-No.
	Duroplast black.		D	d1	d2	H	h1	h2	l1	l2	A 13 11 860
			18.8	6	16.4	12.5	2.6	10	11.5	11.5	
	Duroplast black.		D	d1	d2	H	h1	h2	l1	l2	A 13 19 860
			20.3	6	14	18	3	14.5	19	20	
	Duroplast black, indicator line white.		D	d1	d2	H	h1	h2	l1	l2	A 13 17 860
			20.3	6	16.7	12.8	3	11	17	15	
			23	6	20.2	16	3.4	14.5	21	19	A 13 21 860
	Duroplast black, indicator line white.		D	d1	d2	H	h1	h2	l1	l2	A 13 24 860
			25	6	21.1	20	2	14.3	24	24	

## WITH PROFILED BOREHOLE AND SPRING FIXING



	Thermoplastic black.		D	d1	d2	d3	H	h1			A 16 44 960	
			45	6	4.6	15	13	9.9				
	Thermoplastic black.		D	d1	d2	d3	H	h1	h2			
			37	6	4.6	9.3	15.3	8	7.3			
												A 16 37 960

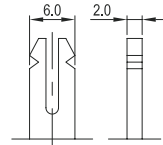
## INSERT – for Axes with shaft ends

	Thermoplastic black.  For universal use in order to reduce borehole form 6 to 4 mm.		D	d1	d2	H	h				
			7.4	4	6	7	0.6				
											A 13 00 040



## SLIDE CONTROL KNOBS

Picture	Version ABS, black	ABS, matt chromed	Marking	Dim. in mm			Suitable for potentiometer axes	Part-No.
				L	W	H		
	•		black	14	11	10		A 15 09 421
	•		silver	14	11	10		A 15 09 420
	•			15	6	10		A 15 14 320



### COLOUR CHART

In the colour chart you will see which colours are available as standard for which articles.

Even the best printing methods, used in our catalogue, are not able to show the absolute original colour tones. Therefore, we offer samples so you can see the original colour.

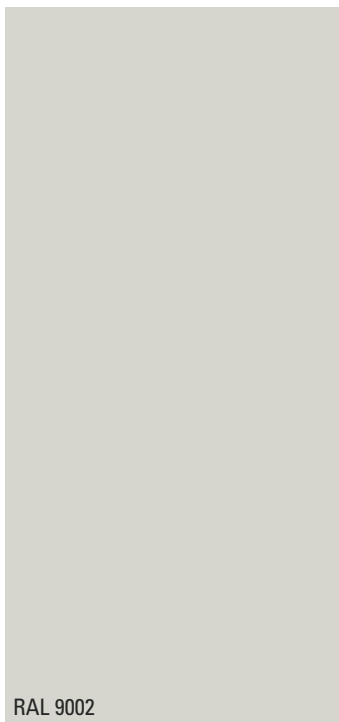
#### Enclosure colours

(depending on the type and version)

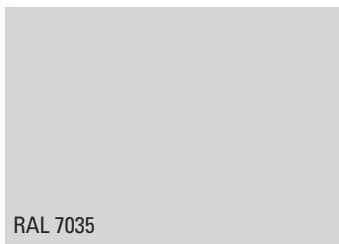
- RAL 1023.....yellow
- RAL 2001.....orange
- RAL 3020.....red
- RAL 5017.....blue
- RAL 6024.....green
- RAL 7032.....pebble grey
- RAL 7035.....light grey
- RAL 9002.....off-white
- RAL 9005.....black
- blue.....blue
- lagoon.....lagoon
- lava.....lava
- green.....green
- grey.....grey
- orange.....orange
- volcano.....volcano
- chromed.....matt chromed-plated

## STANDARD COLOURS OF ENCLOSURES

### One coloured



RAL 9002



RAL 7035



LAVA



RAL 9005



GRÜN/GREEN

ART-CASE	76
BLOB	20
CARRYTEC	33
COMTEC	58
DATEC-CONTROL	26
DATEC-KEYBOARD	62
DATEC-MOBIL-BOX	25
DATEC-POCKET-BOX	24
DATEC-TERMINAL	56
DESK CASE	60
DIATEC	39
ERGO-CASE S, M, L	31
EURO-CASE	71
HAND-HELD-BOX	38
HAND-TERMINAL	30
INTERFACE-TERMINAL	51
KEYBOARD HOUSING	62
MEDITEC	68
MINITEC	16
MOTEC	67
SENSO-CASE	37
SHELL-TYPE CASE	65
SMART-CASE	18
SOFT-CASE	22
UNITEC	63
VARIO-BOX	41

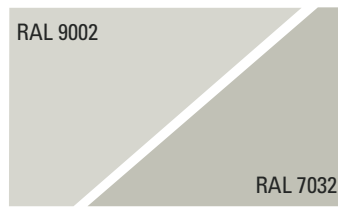
IN-BOX	48
RAILTEC C	82
ROBUST-BOX	46
SMART-BOX	44
SNAPTEC	50
WALLTEC	43

BLOB	20
CARRYTEC	33
DIATEC	39
MINITEC	16
SENSO-CASE	37
SOFT-CASE	22

COMTEC	58
DATEC-CONTROL	26
DATEC-KEYBOARD	62
DATEC-MOBIL-BOX	25
DATEC-POCKET-BOX	24
DESK CASE	60
ERGO-CASE	31
HAND-HELD-BOX	38
HAND-TERMINAL	30
MINITEC	16
SMART-CASE	18
SOFT-CASE	22
TOPTEC	73

RAILTEC CB	82
RAILTEC Support	82

### Two coloured



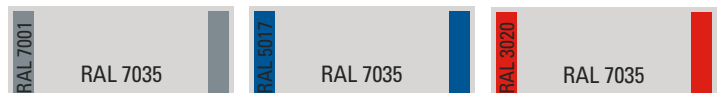
DESK CASE	60
EURO CASE	71
FLAT-PACK CASE	75
LUX CASE	72
PLUG CASE	79
TOPTEC	73
VARIO-BOX	41

MEDITEC	68
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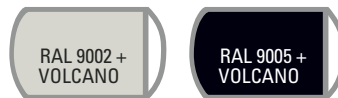
RAILTEC CC	83
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RAILTEC B	80
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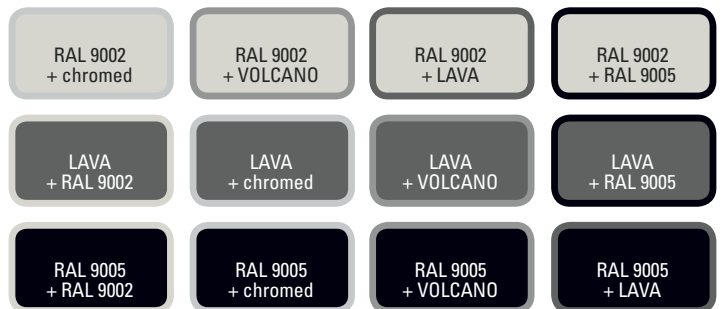
ROBUST-BOX with coloured cover strips (accessory)	44
---------------------------------------------------	----



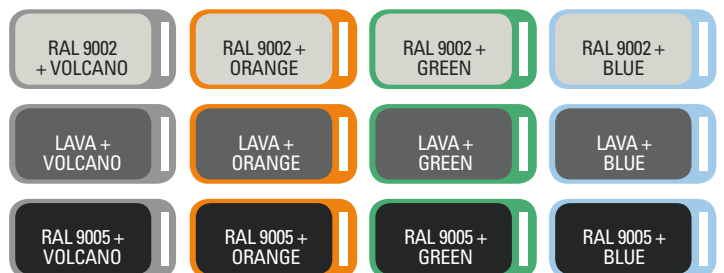
ERGO-CASE XS	31
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SOFT-CASE with coloured intermediate ring (accessory)	22
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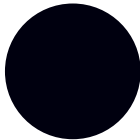
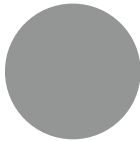


MINITEC with coloured intermediate ring	16
-----------------------------------------	----





## STANDARD COLOURS OF TUNING KNOBS / SLIDE CONTROL KNOBS

### One coloured

	Nero STAR-KNOBS ..... 98 COM-KNOBS ..... 103
	Black, RAL 9005 COMBINATION KNOBS ..... 104 TUNING KNOBS ..... 106 SLIDE CONTROL KNOBS ..... 107
	Volcano STAR-KNOBS ..... 98
	Dust grey, RAL 7037 COMBINATION KNOBS ..... 106
	Silver SLIDE CONTROL KNOBS ..... 107

### Two coloured

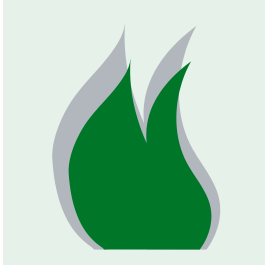
STAR-KNOBS ..... 98			
	Nero + Diamond (white / RGB)		Volcano + Diamond (white / RGB)
	Nero + Ruby		Volcano + Ruby
	Nero + Emerald		Volcano + Emerald
	Nero + Sapphire		Volcano + Sapphire
TOP-KNOBS ..... 102			
	Nero + Coral		Volcano + Coral
	Nero + Beach		Volcano + Beach
	Nero + Lagoon		Volcano + Lagoon
	Nero + Sky		Volcano + Sky
	Nero + Mineral		Volcano + Mineral
COM-KNOBS ..... 103			
	Nero + Coral		Volcano + Coral
	Nero + Beach		Volcano + Beach
	Nero + Lagoon		Volcano + Lagoon
	Nero + Sky		Volcano + Sky
	Nero + Mineral		Volcano + Mineral
COMBINATION KNOBS ..... 104			
	Black, RAL 9005 + Red RAL F12/0-10		Dust grey, RAL 7037 + Red RAL F12/0-10
	Black, RAL 9005 + Yellow, RAL F12/0-1		Dust grey, RAL 7037 + Yellow, RAL F12/0-1
	Black, RAL 9005 + Green, RAL F12/0-43		Dust grey, RAL 7037 + Green, RAL F12/0-43
	Black, RAL 9005 + Blue, RAL 5012		Dust grey, RAL 7037 + Blue, RAL 5012
	Black, RAL 9005 + Pebble grey, RAL 7032		Dust grey, RAL 7037 + Pebble grey, RAL 7032
	Black, RAL 9005 + Dust grey, RAL 7037		

Colours of Tuning knobs / Slide control knobs (depending on the type and version)

RAL 5012.....	blue
RAL 7032.....	pebble grey
RAL 7037.....	dust grey
RAL 9005.....	black
RAL R12/0-10.....	red
RAL F12/0-1.....	yellow
RAL F12/0-43.....	green
- .....	lagoon
- .....	sky
- .....	beach
- .....	coral
- .....	mineral
- .....	volcano
- .....	nero
- .....	silver
- .....	diamond
- .....	ruby
- .....	emerald
- .....	sapphire

## INFORMATION

### Combustibility test for plastics according to UL SUBJECT 94



◁ Identification of the product option for the special "flame-resistant material" for the relevant articles on our website.

#### UL 94 V-0

Test: The test samples are extinguished within 50 seconds average time (mean of 10 successive tests). None of the test samples burns longer than 10 seconds. None of the test samples emits burning particles.

#### UL 94 V-1

Test: The test samples are extinguished within 250 seconds average time (mean of 10 successive tests). None of the test samples burns longer than 30 seconds. None of the test samples emits burning particles.

#### UL 94 V-2

Test: Same test as UL 94 V-1, but the test samples emit burning particles during the test.

The test samples mentioned above are extinguished in all cases.

If the test samples keep burning after 30 seconds, a horizontal test can be carried out to reach the classification UL 94 HB.

### Environment

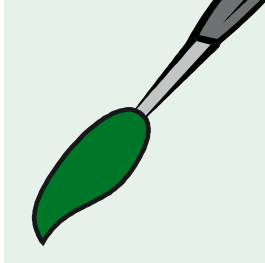


◁ Identification of the product option for the special "bio-plastic" for the relevant articles on our website.

Besides the SOFT-CASE, OKW Gehäusesysteme on request also produces numerous standard enclosures in a biomaterial. This **bio-plastic** is made from renewable raw materials and is CO<sub>2</sub>-neutral. Since it has similar properties to ABS, it can replace the fossil plastics used so far in many applications. As an unequivocal and lifelong marking, these enclosures have an internal material stamp "BIO". In this way, your company can also show responsible and environmentally aware behaviour with an enclosure made from biological plastic.

In the development of plastic enclosures and tuning knobs, the designers follow the "**Ecodesign Directive 2005/32/EC**". The high quality standards, the use of homogeneous materials for easy recycling, timeless design and the long service life of the products also contribute towards sustainability.

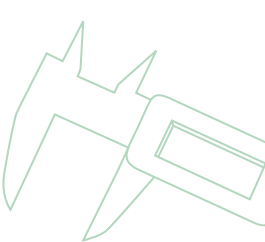
### Special colours



◁ Identification of the product option for the special "special colours" for the relevant articles on our website.

To adapt the products to your corporate design, we can also produce a large number of enclosures and tuning knobs in your own colours. For the colour you require, we can have the required natural material coloured and extruded in top reproduction quality. Individual adjustment of colour is possible according to a sample, range of dyes, RAL, Pantone or NCS.

### Plastics parts tolerances




Dimensional and form deviations occur in the production of injection-moulded plastic parts. The maximum permissible deviations from the nominal dimensions are listed in DIN 16901 T130.

**For information on the choice of materials  
and on the plastic materials used,  
see pages 208-209**

Up-to-date material data sheets are also available on our website [www.okw.com](http://www.okw.com).

## THERMOPLASTICS

Material groups	Styrene-Polymerisate			Polycarbonate		Polyamide PA		Compound
	ABS	ABS flame-resistant V-0	Modified Polystyrene SAN transparent	PC	PC reinforced	PA 6x	PA 6x reinforced	ASA antimicrobial
Abbreviation & Attribute								
Application for the following product groups	AC, BLOB, COM, CT, DC, DIA, DK, DKB, DMB, DPB, DT, EG, ERC, FG, IFT, IB, KKS, Kombi-PG, LG, MED, MG, MIT, MOT, PG 138/190/220, RB, SEC, SG, SM, SNA, SOC, SRK, TG, TT, UMB, UNT, VB, WT, accessory KKS	MOT StG (top parts)	VB (cover)	RB, DT (cover), IB, RT B (lid, top parts), RT C, SK (illuminated parts), dial, WT (top parts transparent)	WT	MG, Cable glands	Handle bar, TK & CK (only knob), SK (knob + assembly kit), strain relief (A9199005, A9166004)	On request, depending on the article.  Identification of the product option for the relevant articles on our website.
Properties for choice of material	Good resistance against medium temperature combined with good impact strength (only certain types) and antistatic adjustment. On the whole, good resistance against chemicals. UV-light may have a negative effect.		like ABS	Thermoplastic with high temperature stability with excellent resistance to all kinds of temperature. On the whole, good resistance against chemicals and UV-light.		Thermoplastic with high temperature stability, extremely solid and tenacious. Good sliding properties and high capacity of resistance to wear. Contact with humidity may result in a change of properties.		Good resistance to atmospheric influences. Impact strength and heat resistance similar to ABS.
Recommended use	Cases and operating elements of all kinds. Suitable for use in enclosed rooms, also at low temperatures.		Transparent enclosure parts.	Recommended for enclosures in enclosed rooms and out of doors. Not recommended for use with strong alkalis or for direct exposure to sunlight.		Ideally suited for technical parts with complex geometry, e.g. outdoor applications and machine building.		Enclosure and operating elements with preventive effects for bacteria, viruses, fungi and algae.
Resistance of material to								
Gasoline		○	—		—		+	○
Diesel oil		+	○		○		+	+
Sea water		+	+		+		+	+
Hydrochlorid acid 10%		○	○		+		—	○
Weak alkaline solutions		+	+		—		—	+
Strong alkaline solutions		+	+		—		—	○
Atmospheric influences		○	○		+		+	+
Lactic acid		+	+		+		○	+
Acetone		—	—		—		+	—

### Up-to-date material data sheets are also available in the Internet [www.okw.com](http://www.okw.com)

The plastic properties are exclusively applicable for the specified standard test pieces. Variations may occur as far as cases and technical parts are concerned. This does not exempt you from carrying out your own tests. The application, utilisation and subsequent processing are beyond our control and the responsibility for this therefore rests solely with you.

### Description to resistances of materials

Values at room temperature:  
+ = constant  
○ = conditionally constant  
— = inconstant

Simultaneous exposure to different media may alter the resistive properties of a material! To be safe, it is advisable to test the cases for sufficient resistance of the material under the conditions of the specific application.

### Material abbreviation

<b>ASA</b>	Acrylnitrile-Styrene-Acylester
<b>ABS</b>	Acrylnitrile-Butadiene-Styrene
<b>PA</b>	Polyamide
<b>PC</b>	Polycarbonate
<b>PF</b>	Phenol-Formaldehyde Resin
<b>PMMA</b>	Polymethylmethacrylate
<b>PPE</b>	Polyphenylene-Ether
<b>PPE+PS</b>	Polyphenylene-Ether-Polystyrene-Blend
<b>PPO</b>	Polyphenylene-Oxide
<b>SAN</b>	Styrene-Acrylnitrile-Copolymeride
<b>SEBS</b>	Styrene /ethylene butene / block copolymerisate
<b>SEPS</b>	Styrene /ethylene propylene/block copolymerisate
<b>SB</b>	Styrol-Butadiene
<b>TPE</b>	Thermoplastic Elastomer

**THERMOPLASTICS**

**DUROPLAST**

**BIO**

PMMA plexiglass®	Modified Polyether PPE (PPO)		Blends		Elastomer	Phenolharz	BIOGRADE®
	PMMA	PPE+PS	PPE+PS reinforced	PC+ABS flame-resistant V-0	ASA+PC flame-resistant V-0		
DPB, MIT, SM, SOC	NEG TYPE A	NEG TYP B, RT B (base parts)	HT StG + AC (live parts)	CT, SB	MIT & SOC (intermediate rings), DMB & DC (protectors)	DK, MG	SOC  On request, depending on the article.    Identification of the product option for the relevant articles on our website.
Good mechanical properties, more brittle than ABS. Visually attractive. Light transmission up to 92 % for some types.	Extremely good mechanical, thermal and electrical properties. Good ageing stability and weathering resistance. High chemical resistance.		Good stability in case of high temperature combined with enormous impact strength as well as toughness at subzero temperature. On the whole, good resistance against chemicals. UV-light may have a negative effect.	Good stability in case of high temperature combined with enormous impact strength. On the whole, good resistance against chemicals. High weathering resistance.	Weather-resistant with good chemical properties. Depending on their Shore hardness, thermoplastic elastomers can have other properties.	High thermal and chemical resistance. Insoluble and non-fusible when cured, recyclable and reusable thanks to modern processes.	Biologically degradable polymer compound made mainly from renewable raw materials (cellulose), CO <sub>2</sub> -neutral and technically compostable. Otherwise similar properties to ABS.
Enclosures and enclosure parts with full light transmission or for the infrared sector.	Components and enclosures for control panel or wall installation.		Ideally suited for indoor use with moderate corrosive conditions. Limited outdoor suitability.	Recommended for enclosures in enclosed rooms and out of doors.	Ideal for protecting the enclosures and their environments. Gives hand-held enclosures a pleasant touch sensation.	For components in chemically resistant environments.	For all enclosures and operating elements indoors.
+		-		-		+	○
+		-		○		+	+
+		+		+		+	+
+		+		+		+	-
+		+		-		+	+
○		+		-		○	-
○		○		+		+	○
+		+		+		+	-
-		-		-		○	-

**Product groups abbreviation  
(catalogue page)**

**AC** ART-CASE (76)  
**BLOB** BLOB (20)  
**CK** COM-KNOBS (103)  
**COM** COMTEC (58)  
**CT** CARRYTEC (33)  
**DC** DATEC-CONTROL (26)  
**DIA** DIATEC (39)  
**DK** TUNING KNOBS (106)  
**DKB** DATEC-KEYBOARD (62)  
**DMB** DATEC-MOBIL-BOX (25)  
**DPB** DATEC-POCKET-BOX (24)  
**DT** DATEC-TERMINAL (56)  
**EG** EURO CASE (71)  
**ERC** ERGO-CASE (31)  
**FG** FLAT-PACK CASE (75)  
**HT** HAND-TERMINAL (30)  
**IB** IN-BOX (48)

**IFT** INTERFACE-TERMINAL (51)  
**KKS** COMBINATION KNOBS (104)  
**Kombi-PG** COMBI DESK CASE (61)  
**LG** LUX CASE (72)  
**MED** MEDITEC (68)  
**MG** POTTING BOX (89)  
**MIT** MINITEC (16)  
**MOT** MOTEC (67)  
**NEG A** DIN-MODULAR CASE TYPE A (88)  
**NEG B** DIN-MODULAR CASE TYPE B (86)  
**PG** DESK CASE (60)  
**RB** ROBUST-BOX (46)  
**RT B** RAILTEC B (80)  
**RT C** RAILTEC C (82)  
**SB** SMART-BOX (44)  
**SEC** SENSO-CASE (37)  
**SG** SHELL-TYPE CASES (65)

**SK** STAR-KNOBS (98)  
**SM** SMART-CASE (18)  
**SNA** SNAPTEC (50)  
**SOC** SOFT-CASE (22)  
**SRK** SLIDE CONTROL KNOBS (107)  
**StG** PLUG CASE (79)  
**TG** KEYBOARD HOUSING (62)  
**TK** TOP-KNOBS (102)  
**TT** TOPTec (73)  
**UMB** HAND-HELD-BOX (38)  
**UNT** UNITEC (63)  
**VB** VARIO-BOX (41)  
**WT** WALLTEC (43)



**ACCORDING TO DIN VDE 0470 PART 1 / EN 60529 / IEC 529**
**General**


The ideal case for all applications.

Be it for indoor use, as table-top unit or wall mounting system, or for the mobile application as hand-held-box – OKW case systems offer a high standard of quality to protect your electronic equipment.

Our products with specification of protection classes have a particular design and are tested as unique object VDE and/or according to IEC 529. For special modification or mounting with accessories we recommend a certification of the final products. Each type of protection is specified by a code composed of the standard index IP and two digits defining the degree of protection (example: IP 65).

The test classes for impact strength are composed of the code letters IK and a reference for the degree of protection.

The following table contains the protection classes which can at least be achieved by OKW. You will find an explanation for the protection classes on the opposite page.

Protection classes of OKW cases	product group	starting from page
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<b>&lt; IP 40</b>	EURO CASE .....	71
	LUX CASE .....	72
	HAND-HELD-BOX .....	38
	POTTING BOX .....	89
	DIN-MODULAR CASE TYPE A .....	88
	DIN-MODULAR CASE TYPE B .....	86
	DESK CASE .....	60
	RAILTEC B .....	80
	RAILTEC C .....	82
	SHELL-TYPE CASE V/O; G without sealing .....	65
	PLUG CASE .....	79
	KEYBOARD HOUSING .....	72

<b>IP 40</b>	ART-CASE .....	76
	COMTEC .....	58
	DIATEC .....	39
	ERGO-CASE L with display trim .....	31
	FLAT-PACK CASE N , H and A with front panel .....	75
	MEDITEC .....	68
	MOTEC with front and rear panel / sloping control panel and rear panel .....	67
	SMART-CASE without sealing .....	18
	SOFT-CASE without intermediate ring / with intermediate ring in ABS .....	22
	TOPTec .....	73
	UNITEC .....	63

<b>IP 41</b>	DATEC-POCKET-BOX without sealing .....	24
	MINITEC DROP S and M with intermediate ring in TPE .....	16
	MINITEC EDGE M with intermediate ring in TPE .....	17
	SENSO-CASE .....	37
	SMART-CASE M, L & XL without sealing .....	18

<b>IP 42</b>	ERGO-CASE XS with TPE intermediate ring .....	31
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<b>IP 53</b>	DIN-MODULAR CASE TYPE B with snap-in cover .....	86
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<b>IP 54</b>	BLOB with sealing .....	20
	CARRYTEC enclosure with sealing .....	33
	DATEC-CONTROL M & L with sealings kit .....	26
	DATEC-POCKET-BOX S, M and L with sealing .....	24
	DATEC-TERMINAL with sealing .....	56
	ERGO-CASE S, M & L with sealings kit (except size L with display trim) .....	31
	INTERFACE-TERMINAL with sealings .....	51
	SOFT-CASE with intermediate ring in TPE, without battery compartment .....	22
	VARIO-BOX with front panel .....	41

<b>IP 64</b>	VARIO-BOX with front frame and front panel .....	41
	VARIO-BOX with front cover .....	41

<b>IP 65</b>	DATEC-CONTROL XS & S with sealing .....	26
	DATEC-KEYBOARD with sealing .....	62
	DATEC-MOBIL-BOX with sealings kit .....	25
	HAND-TERMINAL with sealing (case, front panel) .....	30
	SHELL-TYPE-CASE G with sealings kit, without battery compartment .....	65
	SMART-BOX with sealing (width170) .....	18
	SMART-CASE L & XL versions II-IV with sealing, without battery compartment .....	18
	SNAPTEC with sealing .....	50
	VARIO-BOX with cover .....	41
	WALLTEC .....	43

<b>IP 66</b>	IN-BOX .....	48
	ROBUST-BOX with sealing .....	46
	SMART-BOX with sealing (width 90/110/130/150) .....	44



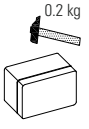


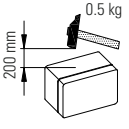


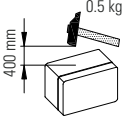


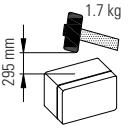


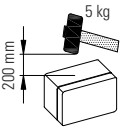

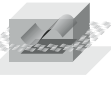
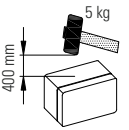

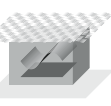

<b>IP 67</b>	IN-BOX .....	48
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**ACCORDING TO DIN EN 50102/A1**

<b>IK 07</b>	IN-BOX (ABS) .....	48
	WALLTEC (ABS, PC) .....	43

<b>IK 08</b>	IN-BOX (PC) .....	48
	WALLTEC (PC) .....	43

## DEFINITION OF INDEXES

DEGREES OF CONTACT PREVENTION AND GUARDING AGAINST FOREIGN MATTER			DEGREES OF WATER PROTECTION			PROTECTION AGAINST MECHANICAL IMPACT	
First index digit	Extent of protection		Second index digit	Extent of protection		IK-class	protection
	protection	explanation		protection	explanation		
<b>0</b>	no protection	–	<b>0</b>	no protection	–	<b>IK 00</b>	no protection
<b>1</b>	against large foreign bodies 	Protection of persons from accidental large-area direct contact with active or internal moving parts (e.g. hand contact), but no guard against intentional access to such parts. Protection of the object from access of solid foreign matter larger than 50 mm in diameter.	<b>1</b>	against water dripping vertically 	Water drops falling vertically must not have any harmful effect.	<b>IK 01 – IK 05</b>	impact energy < 1 joule 
<b>2</b>	against medium-size foreign bodies 	Protection of persons from finger contact with active or internal moving parts. Protection of the object from access of solid foreign matter larger than 12 mm in diameter.	<b>2</b>	against water dripping up to 15° 	Water drops falling vertically at any angle up to 15° must not have any harmful effect.	<b>IK 06</b>	impact energy 1 joule 
<b>3</b>	against small foreign bodies 	Protection of persons from touching active or internal moving parts with tools, wires or similar foreign bodies thicker than ø 2.5 mm. Protection of the object from access of solid foreign matter larger than 2.5 mm in diameter.	<b>3</b>	against spray water 	Water hitting the object at any angle up to 60° with the vertical must not have any harmful effect.	<b>IK 07</b>	impact energy 2 joule 
<b>4</b>	against granular foreign bodies 	Protection of persons from touching active or internal moving parts with tools, wires or similar foreign matter > than ø 1.0 mm.	<b>4</b>	against splash water 	Water splashing against the object from all directions must not have any harmful effect.	<b>IK 08</b>	impact energy 5 joule 
<b>5</b>	from deposit dust 	Total protection of persons from touching voltage-carrying or internal moving parts. Protection of the object from harmful deposit of dust. Access of dust is not completely prevented, but dust is prevented from access in a quantity impairing the functioning.	<b>5</b>	against jet water 	A jet of water nozzled against the object from all directions must not have any harmful effect.	<b>IK 09</b>	impact energy 10 joule 
<b>6</b>	from access of dust 	Total protection of persons from touching voltage-carrying or internal moving parts. Protection of the object from access of dust	<b>6</b>	against flooding 	Water of temporary flooding, as by heavy seas, must not enter the object in any harmful quantity.	<b>IK 10</b>	impact energy 20 joule 
			<b>7</b>	in dipped state 	If the object is dipped into water (0.15-1 m) under the defined conditions of pressure and time, water must not enter it in any harmful quantity.		
			<b>8</b>	in submerged state 	If the object is submerged in water under defined extremely conditions, water must not enter in any harmful quantity.		

Part-No.	Page	Part-No.	Page	Part-No.	Page	Part-No.	Page	Part-No.	Page	Part-No.	Page	Part-No.	Page
<b>A</b>		A 03 36 370	157	A 10 31 068	190	A 15 14 320	204	A 26 50 060	198	A 32 20 006	192	A 41 13 100	194
A 01 05 270	157	A 03 44 216	157	A 10 31 069	190	A 16 13 560	202	A 28 13 060	194	A 32 20 007	192	A 41 13 102	194
A 01 05 280	157	A 03 44 217	157	A 10 31 638	190	A 16 24 260	200	A 28 16 060	194	A 32 20 009	192	A 41 13 104	194
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