PPLICATION DATA SHEE

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Transmitters



TOCSIN

EEXd Local Gas Detector Control and Display Unit

4-20mA Output Alarm Relay Output Option Digital Addressable I/O Option **Exd Certified ATEX Certified** Ingress Protection IP66 Digital Display, Concentration, Alarms and Fault Status Easy Calibration One Man Calibration

The Tocsin 903 provides a local display and control facility for the Tocsin 102 series or pellistor gas detectors in Zone 1 and 2 hazardous areas. In addition to being equipped as a 4 20mA process transmitter the Tocsin 903 can also be fitted with serial addressable capability either using the Oliver IGD data highway to integrate to 700 or 920 series controllers. The unit is fully compatible with Tocsin 700 and Tocsin 920 Control Panels which offer both addressable and analogue inputs as well as Modbus serial. outputs More conventionally the Tocsin 903 can be interfaced directly into DCS/BMS systems using its 4-20mA Process output. An alarm relay output card is available.

General Specification

Power supply 18 to 32V DC With Relay Option Typically 4 W

12 to 32V DC Without Relay Option (Catalytic Only) **Electrical Outputs** 3 Wire 4-20mA (4 Wire Addressable Capability) **Temperature**

-10°c to +55°c

15 to 90% RH non-condensing

Junction Box, Copper Free Aluminium Alloy Epoxy Coated JB Housing Material Option for 316 Stainless Steel and Marine Paint Finishes

Sensor ,Stainless Steel 316 S16

Junction Box, EExd IIC T6 II 2 D G

Explosion Protection Sensor EEx d IIC T6 II 2 D G

110 Diameter x 127 High Plus detector option

2 x M20, NPT Options 1 x M20 Detector Entry

Weight (Std Al Housing) 1.5Kg Ex d IIC T6 **C€** 0518

🐼 II 2 D G

Epsilon07ATEX2287x

See Tocsin 102 series Gas Detector data sheet for sensor specification and type



Humidity

Cable Entry

Ingress Protection

Sensor Housing Material

Housing Dimensions (mm)

Explosion Protection

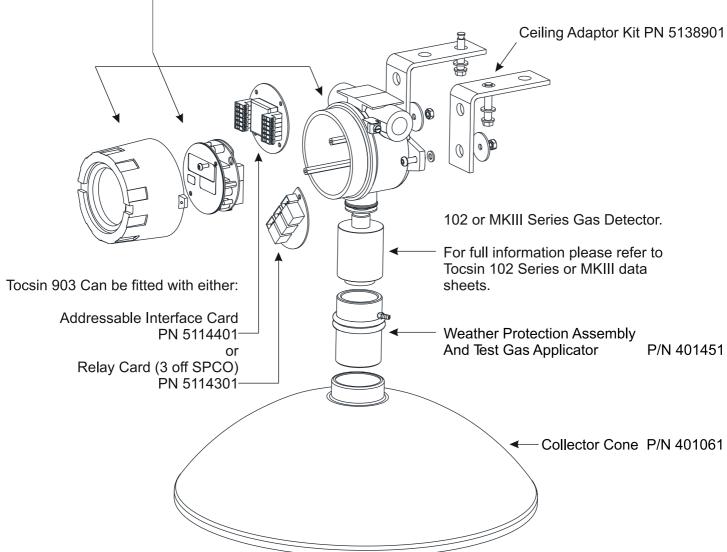
Pepper Road Bramhall Technology Park Stockport SK7 5BW **England**

Tel: +44 (0)161 483 1415 Fax: +44 (0) 161 484 2345 Email: sales@oliver-igd.co.uk Website: www.oliver-igd.co.uk



TOCSIN 903 SENSOR OPTIONS & ACCESSORIES

Standard Tocsin 903	Combine with 102 Series Gas Detector and Accessories.	PN 5104501
Marine Version Tocsin 903 (Additional Polyester Coating)	Supplied	PN 5131302
316 SS Version Tocsin 903		PN 5104502
Std Tocsin 903 Supplied Pre-Calibrated with MKIII Pellistor	Combine with Accessories	PN 5104401



Test Gas Applicator 401101A



Note this can be used as a flow cell in which case combine with locking ring For Compatible Controllers Refer To:

Tocsin 625 1 to 8 Channel Controller Tocsin 700 1 to 64 Channel Controller Tocsin 920 1 to 250 Channel Controller



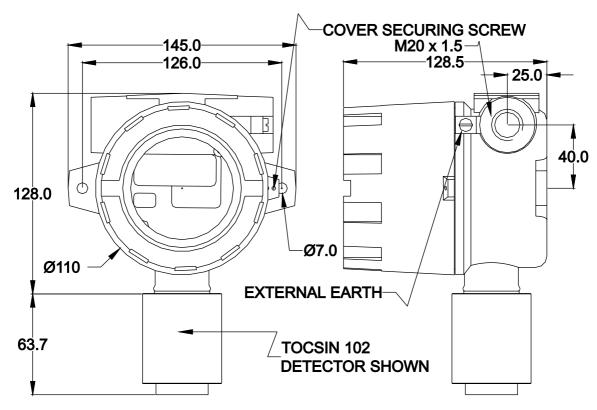


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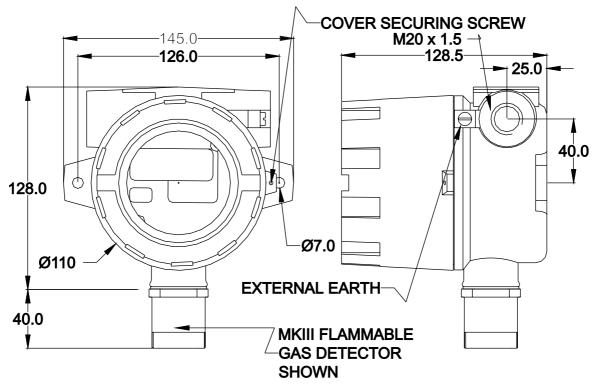




MOUNTING DETAILS AND DIMENSIONS FOR COMBINED TOCSIN 903 AND TOCSIN 102 DETECTOR



MOUNTING DETAILS AND DIMENSIONS FOR COMBINED TOCSIN 903 AND MKIII DETECTOR







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TOCSIN 903 FLEXIBLE CONFIGURATION OPTIONS

Note in all cases the detector can be remoted from the Tocsin 903 controlled.

This can be up to 5M for a pellistor flammable detector or up to 25M for a Tocsin 102 series detector.



Standard Version

3 Wire 4-20mA

Options for Monitoring Oxygen, Toxic or Flammable gases

Alarm 1 SPCO

Alarm 2 SPCO

Fault Detected SPCO

Note alarm outputs can be set as Rising Alarms, Falling Alarms Latching or Non Latching.



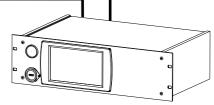
With Relay Alarm Output Option

3 Wire 4-20mA

Digital Addressable Option



Up to 32 Detectors Per Loop Serially Addressed With Full Data Access For Gas Levels, Diagnostics, Calibration etc



Control Panel

(Tocsin 920 Rack Mount Shown)



OLIVER IGD

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The Tocsin 903 series controller has, as standard an in-built interface to drive an Oliver IGD MK3 or Type B series pellistor.

In this configuration all set up and on-going calibration and maintenance can be undertaken from the Tocsin 903 software menu system.

All system configurations are still available as:

4-20mA Output (as standard)

Relay Output (option)

Addressable Highway Interface (option)

EXCELLENT STABILITY AND POISON RESISTANCE

ALL STAINLESS STEEL CONSTRUCTION

ADDRESSABLE SERIAL PORT

CAN BE FIELD CALIBRATED

LINEAR 4-20mA OUTPUT

AVAILABLE FOR A WIDE RANGE OF FLAMMABLE GASES.

Performance		
Accuracy	+/-2% FSD	
Linearity	Better Than 3%FSD	
Warm up time to final zero	< 10 minutes	
Warm up time to specification	< 30 minutes	
Response time to target gas T90	Typically < 7 s (CH4)	
MTBF	> 5 years	
Long Term Zero Drift Per Year	< +/-4% LEL	
Zero Repeatability During Operation	+/-0.2% LEL	
Span (5%) Repeatability During Operation	+/- 2% LEL	
F		
Environmental:		
Operating Temperature	-10 to +55 Deg C	
Storage Temperature	-20 to +60 Deg C	
Relative humidity (non-condensing)	0 to100%	
Connections		
Outputs	3 Wire 4-20mA	
Power Input	18 to 32V DC	
Power Consumption (with Tocsin 903)	6W	
Power Consumption (with locsin 903)	OVV	
Physical		
,		
Ingress Protection	IP66	
Housing Material	Stainless Steel 316 S16	
Protection Concept	Flameproof	
Dimensions (mm)	33 Diameter x 52 Length	
Mounting Thread	M20 x 1.75	
Weight	550 grams	



EEx d IIC T6 € 0518

Sira 02ATEX1271X



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