

PRODUCT DATA SHEET

www.internationalgasdetectors.com

OLIVER IGD

Control Systems

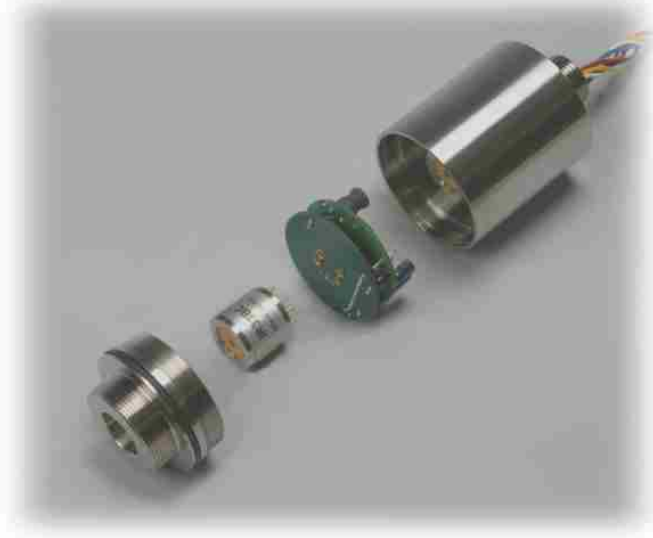
Transmitters

Sensors

Accessories

TOCSIN 102 PID Gas Detectors

4-20mA Device 2 and 3 Wire
Addressable Versions
Compact Size
Exd Certified
ATEX Certified
Ingress Protection IP66 (with splash guard)
Stainless Steel Housing
Standard Range 0-6000ppm ISO-Butylene
Low Range 0-50ppm ISO-Butylene



SMALL FORMAT DEVICE, 50mm Diameter x 80mm Long

Low Cost
Easily Fits Around Sites
Easy to Install in On-Line applications

EASY TO MAINTAIN

No Moving Parts
Plug in Cartridge Lamp/Stack Replacement
Small Size is easy to Handle
Easy PC Configuration and Calibration Maintenance

OVER 400 VOC's/GASES

GAS TABLES PROVIDED

EXTENSIVE RANGE OF PROCESS ADAPTORS AND SAMPLE UNITS

NO PUMPS OR MOVING PARTS

No Breakdowns Through Wear of Moving Parts
Reduced Contamination Enhances Self Cleaning Capability
No Down Time For filter Changes

EXTENDED LIFE TIME OPERATION

Reduced sample Contaminants to Lamp/Stack
Duty Cycle Feature to extend Lamp Life
Reduced Life Costs

General Specification

Power supply	18 to 32V DC
Electrical Outputs	3 Wire 4-20mA
Temperature	-10°C to +55°C
Humidity	15 to 90% RH non-condensing
Ingress Protection	IP66
Housing Material	Stainless Steel 316 S16
Protection Concept	Flameproof
Dimensions (mm)	50 Diameter x 80 Length
Mounting Thread	M20 x 1.75
Weight	550 grams

VOC'S
HAZMAT
TOXIC GASES
TRACE GAS
BIO-THREATS
PROCESS CONTROL

ATEX Approved
IECEX Approved

Ex db IIC T6 Gb Ta = -20° to +40°C
Ex tb IIIC T85°C Db IP66
Ex db IIC T5 Gb Ta = -20° to +55°C
Ex tb IIIC T100°C Db IP66
IECEX EXV16.0003X Rating 2W
ExVeritas 16ATEX 0141X



IGD
International Gas Detectors
CH₄ H₂S CO₂
NO₂ SO₂ NO₂ SO

OLIVER IGD
Triton House
Crosby Street
Stockport
SK2 6TS
England

Tel: +44 (0)161 483 1415
Fax: +44 (0) 161 484 2345
Email: sales@internationalgasdetectors.com
Website: www.internationalgasdetectors.com



FS646773
Ref ROS75B

EC Declaration of Conformity

Issuers name and address:

Oliver IGD Limited of
Triton House
Crosby St,
Stockport,
United Kingdom



TOCSIN 102PID

Photo-Ionisation point gas detector certified for use in potentially explosive atmospheres.

Are in conformity with the provisions of the following European Directive(s) when installed, operated, serviced and maintained in accordance with the installation and operating instructions contained in the product documentation.

2004/108/EC **EMC Directive**
94/9/EC **ATEX Directive**

And that the standards and/or technical specifications referenced below have been applied or considered.

EN 60079-0:2012	Equipment for use in explosive atmospheres. General requirements
EN 60079-1:202014	Equipment for use in explosive atmospheres. Flameproof enclosures 'd'
EN 60079-31:2014	Equipment for use in explosive atmospheres. Housing Markings
EN 61241-0:2006	Electrical apparatus for use in the presence of combustible dust. General Requirements
EN 61241-1:2004	Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD"
EN 61779-1:2000	Electrical apparatus for the detection and measurement of flammable gases
EN 50271:2010	Electrical apparatus for the detection and measurement of combustible gases, toxic gases or Oxygen: requirements and tests for apparatus using software and or digital technologies. <i>Excluding requirements for SIL</i>
EN 61000-6-2: 2005	EMC Generic standards. Immunity for industrial environments
EN 61000-6-4: 2007	EMC Generic standards. Emission standard for industrial environments
EN 61000-3-2/A2: 2009	EMC Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3: 2008	EMC Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase
Technical File references	T102A-TF9 Technical construction File AD197 ATEX Approval Document File

Product Markings

Serial Number- xxxxxxYear

ATEX Approved
IECEX Approved



Ex db IIC T6 Gb Ta = -20° to +40°C
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Ex tb IIIC T100°C Db IP66
IECEX EXV16.0003X Rating 2W
ExVeritas 16ATEX 0141X



Oliver IGD Limited Operate and Independently assessed ATEX/IECEX QAN.

Quality Assurance Certificate Number
ExVeritas 16PQAN0014

Quality Assurance Notification Number:
2585

ExVeritas,
Units 16-18,
Abenbury Way,
Wrexham Industrial Estate,
Wrexham, UK, LL13 9UZ

Oliver IGD Limited operate an independently assessed ISO9001:2008 Quality Management System.

Quality Management Certificate Number
FS 646773

BSI Assurance UK LTD,
Chiswick High Road,
London
W4 4AL
UK

Testing Agency:

TUV - SUD
Octagon House
Concorde Way
PO 15 5RL
Fareham



Mehr Sicherheit.
Mehr Wert.

IECEX Certificate can be checked on-line at

<http://iecex.iec.ch/iecex/iecexweb.nsf/421ce8815c53a3afc1257a1e00576486/9486b8f805dc1047c1257f48005165c0?OpenDocument>

TUV Certificates and reports can be checked on-line at https://www.tuev-sued.de/industry_and_consumer_products/certificates

Issued by: Oliver IGD Limited, Stockport, SK2 6TS , United Kingdom

Signature:

Declaration of Conformity in accordance with EN ISO/IEC 17050-1:2010

Name

Andrew J Collier M.I.O.D

Position:

Managing Director

Date: 10.June 2016

Declaration Ref: 102PIDCE-4



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CH₄ H₂S CO₂
NH₃ SO₂ NO₂ CO



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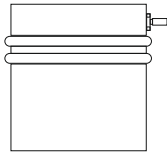
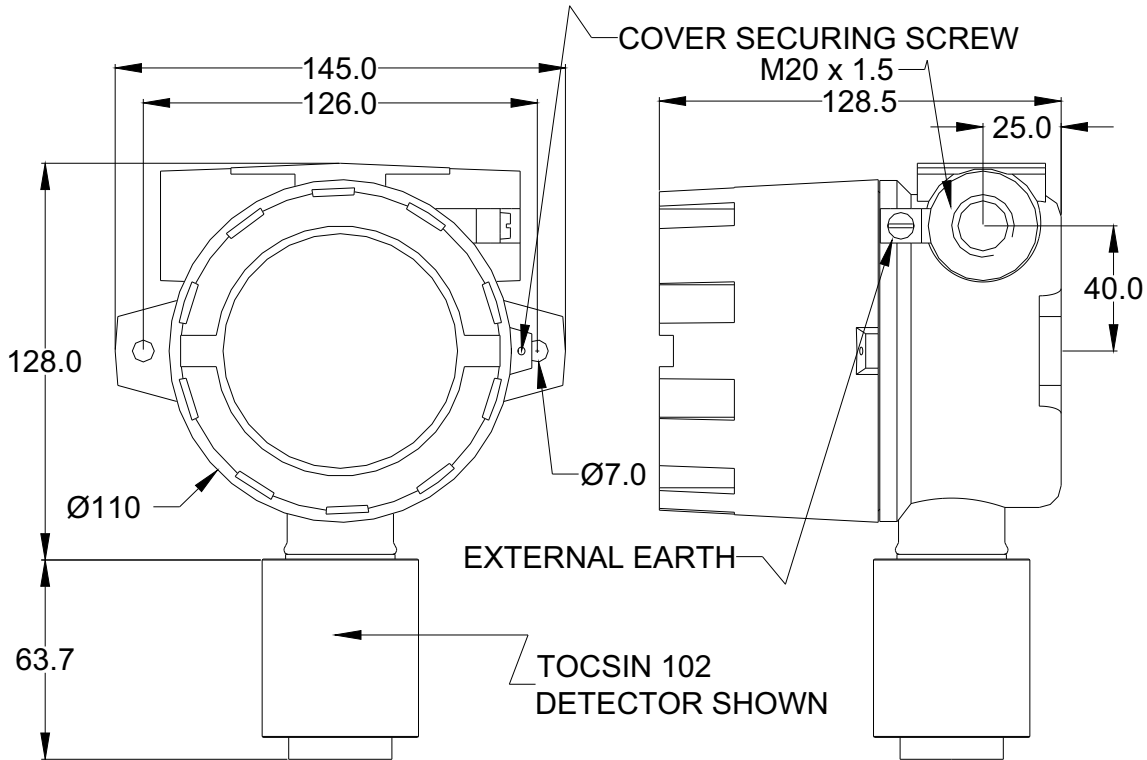


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TOCSIN 102

SENSOR OPTIONS & ACCESSORIES

TOCSIN 102PID SHOWN WITH EExd JUNCTION BOX



Standard Junction Box P/N 5045802
As Above Diagram



Weather Protection Assembly
Incorporating Test Gas Applicator P/N 401451

Engineers Test Gas
Applicator For Tocsin 102 P/N 401101A

For Compatible Oliver IGD Control Panels See:

- The Tocsin 600 Single controller
- The Tocsin 700 1 to 64 Channel Controller
- The Tocsin 920 Addressable System Controller
- The Tocsin 903 EExd Single Channel Controller
- The Tocsin 800 19" Rack System



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