

PRODUCT DATA SHEET

Control Systems

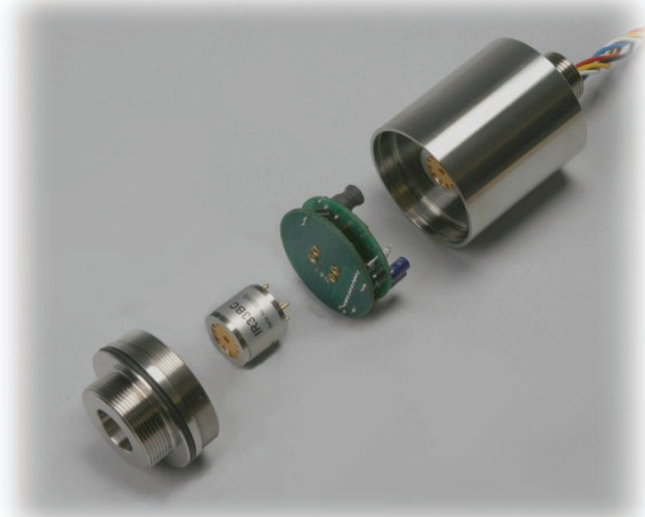
Transmitters

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 0-2000ppm ISO-Butylene
Low Range 0-200ppm ISO-Butylene
*note IGD also offer other ranges.



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

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



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Document Ref: ROS75C V5 Page 1



FS646773

EMS696504

EC Declaration of Conformity



Issuers name and address:

Oliver IGD Limited of
Triton House
Crosby St,
Stockport, SK2 6SH
United Kingdom

Declares that the product listed as:

TOC 102PID

Addressable Gas Detection Control Panel

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
2006/95/EC Low Voltage Equipment Directive (note not applicable to 24V DC Powered Versions)

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

EN 60079-0:2018	Equipment for use in explosive atmospheres. General requirements
EN 60079-1:2014	Equipment for use in explosive atmospheres. Flameproof enclosures 'd'
EN 60079-31:2014	Equipment for use in explosive atmospheres. Housing Markings
EN 60079-29-1:2016	Explosive Atmospheres. Gas detectors. Performance Requirements Of Detectors For Flammable Gases.
EN 50271:2018	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. Excluding requirements for SIL
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 Reference T102-TF9
AD197 ATEX Approval Document File

Product Markings

Serial Number XXXXXXXX

ATEX Approved
IECEX Approved



2585

Ex db IIC T6 Gb Ta = -20° to +40°C
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Quality Assurance Certificate Number
16PQAN0014
Quality Assurance Notification Number:
2585

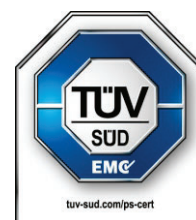


Oliver IGD Limited operate an independently assessed ISO9001:2015 Quality Management and ISO14001:2015 Environmental Management System

Certificate Numbers
FS0646773 & EMS696504

EMC Tested by:

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



Certificate Number
E8N 15 02 91327 002



Units 16-18 Abenbury Way,
Wrexham Industrial Estate,
Wrexham, LL13 9UZ
United Kingdom

BSI Assurance UK LTD,
London, W4 4AL

TUV Certificates and reports can be checked on-line at
https://www.tuev-sued.de/industry_and_consumer_products/certificates
Select Oliver IGD when prompted on the website to view certificates

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

Signature:

Declaration of Conformity in accordance with EN ISO/IEC 17050-1:2004

Name: Andrew J Collier M.I.O.D
Position: Managing Director

Date: 11 June 2019

Declaration Ref: 102ECDEC



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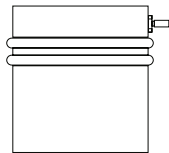
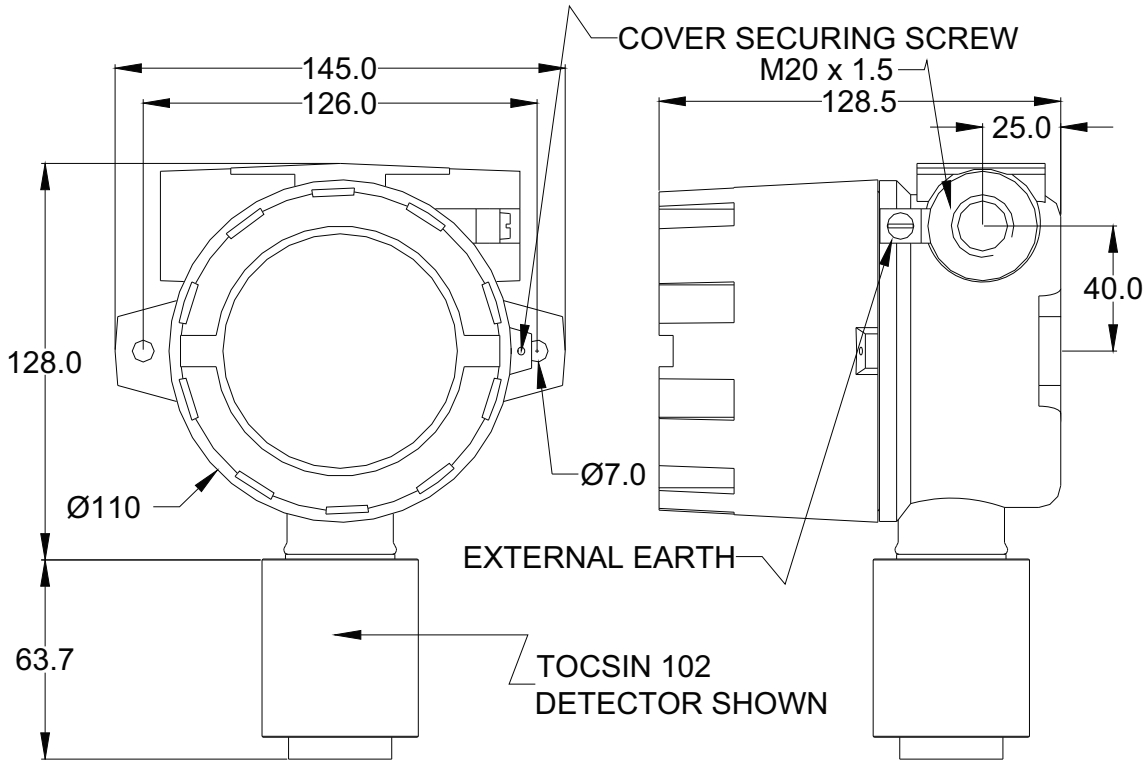
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Document Ref: ROS75C V5 Page 2

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 625 8 Channel controller
- The Tocsin 700 1 to 64 Channel Controller
- The Tocsin 920 Addressable System Controller
- The Tocsin 903 EExd Single Channel Controller
- The Tocsin 750 Series 1-350 Channel System



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