



▶ **Advanced PID Detector**

Available as analogue on the TOC-903-X5
 Available as an addressable system on the TOC-750X or TOC-903-X5
 Stainless steel housing
 Approved for use in ATEX zone 1 & 2 and 21 & 22 dust

▶ **Enhanced Lifetime Operation**

Unique electrode stack negating the effects of temperature and humidity
 Non-electrode UV lamp, reducing the effects of sputtering and contamination
 30,000 Hour lamp life
 200% Increase on lamp life compared to the industry standard

▶ **Easy to Maintain**

Easy onsite installation
 Plug and play, pre-calibrated sensors
 Easy configuration, calibration & maintenance
 Stainless steel sensor housing
 10-Year warranty on electronics, see terms and conditions



ATEX Photoionisation Detector

Order Codes

If you're looking for a new analogue detector or TOC-903-X5 replacement sensors, see the [TOC-903-X5](#) datasheet.

Ranges	TOC-750X	TOC-903-X5
VOC 0-10ppm	5200101	TOC-102-PID01
VOC 0-100ppm	5200201	TOC-102-PID1
VOC 0-200ppm	5200301	TOC-102-PID2
VOC 0-1,000ppm	-	TOC-102-PID10
VOC 0-2,000ppm	5200401	TOC-102-PID20
VOC 0-5,000ppm	5200501	TOC-102-PID50

Specifications

Power 18 to 32V DC	Weight 550 Grams	Dimensions (dia.xh) 50 × 80mm 1.9 × 3.1"	Temperature Range -10° to 55°C (14° to 131°F)
Ingress Protection IP66 (with Splash Guard)	Housing Material Stainless Steel 316 S16	Approvals ATEX & IECEX Zone 1+2 (Gas) Zone 21+22 (Dust) Ex d	Protection Concept Flameproof
Mounting Thread M20 × 1.5	Humidity 15% to 90% RH Non-Condensing	Lamp Life 30,000 Hours	Electrical Outputs 2-Wire Addressable (on TOC-750X + TOC-903-X5) 3-Wire 4-20mA (on TOC-903-X5)
Response Time T90 <25 Seconds Diffusion Mode	Warm Up Time 10 Seconds to Full Operation	Operating Life >3 Years	

EC Declaration of Conformity

Declares the product listed as:
TOCSIN 102PID

Gas Detector With Outputs For Both,
4-20mA signal or Addressable

Issuers name and address:
Oliver IGD Limited of
Triton House
Crosby St
Stockport, SK2 6SH
United Kingdom

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 Equipment for use in explosive atmospheres. General requirements
EN 60079-1 Equipment for use in explosive atmospheres. Flameproof enclosures 'd'
EN 60079-31 Equipment for use in explosive atmospheres. Housing Markings
EN 60079-29-1 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 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 EMC Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3 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-XXXXXXX



ATEX Approved Ex db IIC T6 Gb Ta = -20° to +40°C
IECEX Approved 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



Quality Assurance Certificate Number
16PQAN0014 / 21UKQAN0147
Quality Assurance Notification Number:
2804 / 2585



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

Oliver IGD Limited Operate
and Independently assessed ATEX/
IECEX QAN

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

Certificate Numbers
FS646773 & EMS696504

BSI Assurance UK LTD, London,
W4 4AL United Kingdom



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

Signature:

Name: Andrew J Collier M.I.O.D

Position: Managing Director

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

Date: 06 February 2024

Declaration Ref: DEC-27