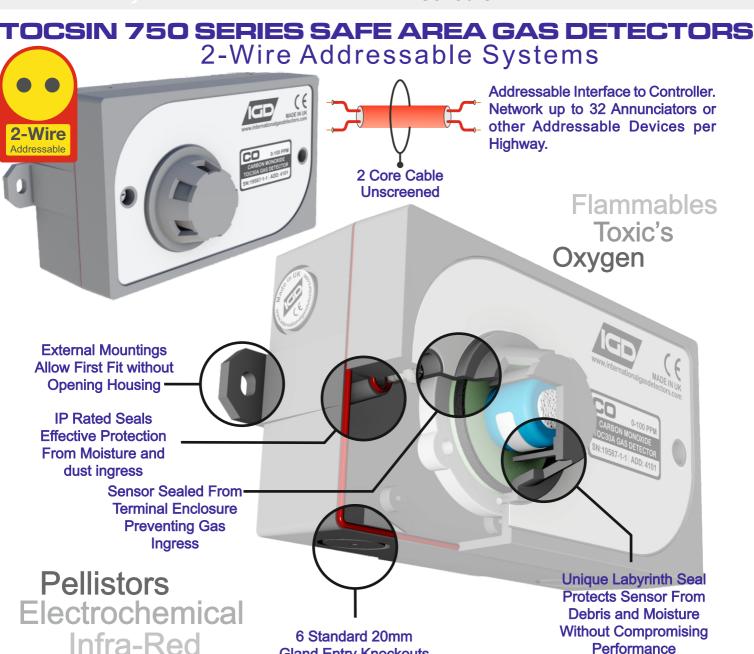
APPLICATION DATA SHEET OLIVER IGD

Sensors



Building on IGD's existing Addressable Gas Detectors, the 750 Series add 2-Wire addressable technology. Using IGD's Sentinel+ 2-Wire protocol the 750 Series communicate over the detector power cables. This reduces cabling and terminations whilst improving reliability. Sentinel+ protocol continuously monitors data between connected detectors and the system controller ensuring maximum system availability. With only two wires for power and communication existing systems can be easily upgraded using existing cables with the option to easily add more detectors where required.

Gland Entry Knockouts





Triton House Crosby St Stockport SK2 6SH England

Ref T750DEU-3

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Email: sales@internationalgasdetectors.com Website: www.internationalgasdetectors.com



Performance



APPLICATION DATA SHEET



Control Systems

Transmitters

Sensors

Accessories

Standard Specifications

Power 12 to 26V DC

Construction ABS

I/O 1 off SPCO Relays 4A/230V AC Non-Inductive User

Configurable from 650/750 Controllers

2 multifunction ports as: Digital Input Max 0.2Hz Digital Input 0-3V Max 0.2Hz

4-20mA input or

Solid State Output 24V DC Max 300mA shared

Across both Ports

Input From TOC-10 Link Function

Sensor Direct Pellistor Interface

Input for IGD Toxic, Oxygen, Infra red and PID

detectors

Communication IGD Sentinel+ Protocol, 2-Wire Connection A,B

Temperature 0 to 55 Deg C

Humidity 0-95% RH Non-Condensing

Sealing IP55

Mounting Wall Mount

Weight 1.75Kg

Standard Features

2-Wire Addressable Technology

Detector Technology to Suit the Application

Available as:

Infra red (Flammables and CO2)

Pellistor (Flammables)

Electrochemical (Toxic's and Oxygen)

Standard 2 Gang Pattress

Dado Mount or Wall Mount

Pre-calibrated

In-Service Calibration Possible

Replaceable Sensor

Uses Existing TOC-30A Series Detectors

Ensuring Maximum Compatibility.

Accessories for Duct Mounting, Sampling,

bulkhead Mounting etc

Excellent Stability and Repeatability.

Compensated for Temperature and Drift

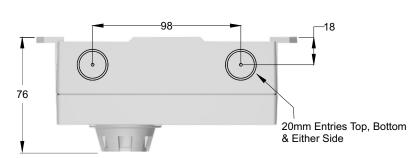
Sensor Accuracies & Response Times

Sensor Response times and accuracies are determined by the type of sensor used. The following table provides general guidance for tests carried out by IGD at standard conditions.

Туре	T90 Response	Accuracy
Pellistors	<10s	+/-2% LEL
Infra Red	<15s	+/-2% of Range
Electrochemical as CO,H2S,SO2	<30s	+/-2% of Range
as O2	<15s	
as NO2,CL,NH3	<50s	

Physical







OLIVER IGD

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PLICATION DATA SHEE



Sensors

EC Declaration of Conformity

Issuers name and address:

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



Declares that the product listed as:

TOCSIN 750 SERIES SAFE AREA GAS

Addressable 2-Wire Gas Detector - Interface Node

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 61779-1:2000 Electrical apparatus for the detection and measurement of flammable gases, general

requirements and test methods.

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.

Excluding requirements for SIL

EN 61000-6-2: 2005 EMC Generic standards. Immunity for industrial environments

EN 61000-6-4: 2007/A1: 2011EMC Generic standards. Emission standard for industrial environments

EN 61000-3-2: 2014 EMC Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) EN 61000-3-3: 2013 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 T750ANN-TF9

Product Markings



TOC-750-DET

S/-serial number

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 Testing Agency: ISO9001:2008 Quality Management System.

Quality Management Certificate Number FS 646773

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



Mehr Sicherheit. Mehr Wert

BSI Assurance UK LTD, Chiswick High Road,

London W4 4AL UK

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 6SH, United Kingdom

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

Declaration Ref: T750DET-DEC-1 Position: Managing Director Date: 1.June 2015

Andrew J Collier M.I.O.D



Name



Ref T750DEU-3

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Control Systems

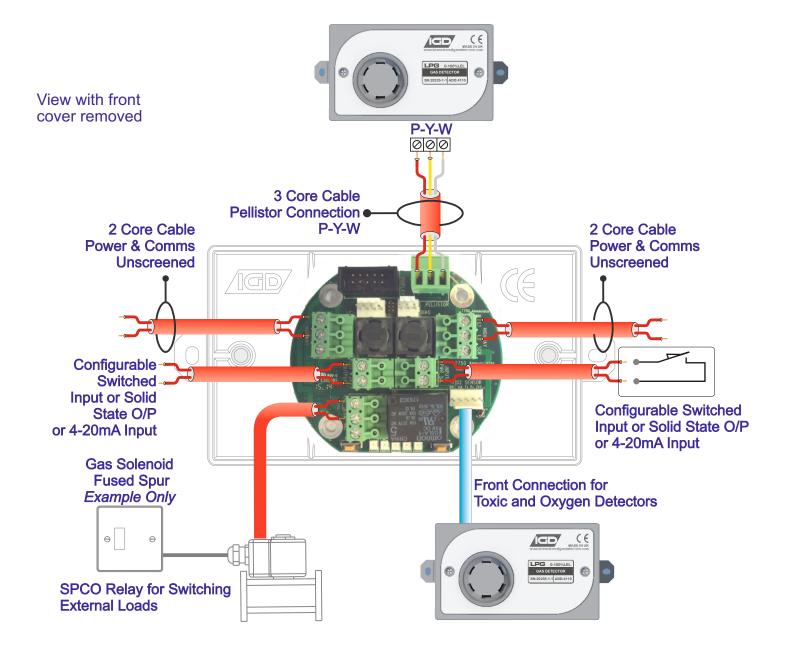
Transmitters

Sensors

Accessories

Interface Locations

Tocsin 750 Series detector systems have a number of standard interfaces available on-board each unit. The standard PCB set allows interface either Toxic, Oxygen or Flammable Detectors. Communication to the system controller uses IGD's latest Sentinel+ 2-Wire protocol for speed of installation and increased reliability. Existing analogue systems can be quickly updated to 2-Wire addressable systems. In addition each module has a flexible range of additional interfaces to easily add slam switches, beacon-sounders and other readings to the system.







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Control Systems

Transmitters

Sensors

Accessories

Order Codes TOC-750 Series Detectors

Gas	Order Code	Standard Range*	Typical Cell Life **
Carbon Monoxide (Lo)	TOC-750-CO	0-100 ppm	5+ Years
Carbon Monoxide (Hi)	TOC-750-HCO	0-2000 ppm	5+ Years
Flammable Gases (Pel)	TOC-750-MK7	0-100% LEL	4+ Years
Flammable Gases (Pel)	TOC-750R-MK7	0-100% LEL	4+ Years
Flammable Gases (Pel)	TOC-750-PHA	0-100% LEL	4+ Years
Flammable Gases (IR)	TOC-750-IRF	0-100% LEL	5+ Years
Carbon Dioxide (Lo)	TOC-750-CO2	0-5000ppm to 5% Vol	5+ Years
Carbon Dioxide (Hi)	TOC-750-HCO2	0-100% Vol	5+ Years
Hydrogen Sulphide	TOC-750-H2S	0-50 ppm	5+ Years
Oxygen	TOC-750-O2	0-25% Vol	5+ Years
Ammonia	TOC-750-NH3	0-500 ppm	3+ Years
Nitric Oxide	TOC-750-NO	0-100 ppm	3+ Years
Nitrogen Dioxide	TOC-750-NO2	0-20 ppm	3+ Years
Nitrous Oxide	TOC-750-N2O	0-1000 ppm	3+ Years
Chlorine	TOC-750-CL2	0-10 ppm	3+ Years
Boron Tri-Chloride	TOC-750-BCL3	0-10 ppm	3+ Years
Hydrogen	TOC-750-H2	0-1000 ppm	3+ Years
Hydrogen Chloride	TOC-750-HCL	0-10 ppm	3+ Years
Silane	TOC-750-SIH4	0-10 ppm	3+ Years

Order Codes Accessories

Gas	Order Code
Calibration Gas Adaptor	4011109
Gas Collector Cone	TOC-CNE
Splash Guard	TOC-30-GD
Cable Gland, Quick Fit M20	TOC-CAB
Pitot Adaptor For Ducts	TOC-30-DCT
Unistrut Adaptor	TOC-ADA
Ceiling Mount	50006601

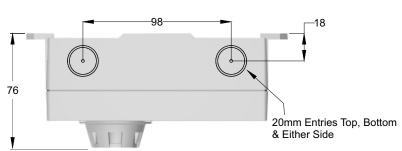


Mounting details and dimensions Toc-750 Safe Area Detectors

Crosby St

Stockport SK2 6SH England







OLIVER IGD Triton House

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PPLICATION DATA SHEE



Sensors

System Example



Use Annunciators For Door Entry Control.







Use Annunciators with Gas Detector Interfaces to Detect & Alarm in Specific Areas

Controller in Supervisors Office

Where Required For Longer Cable Runs or Where Device and Accessory Density is High add Power Boosters or Cascade Hubs to Increase Distance Capability to up to 3KM



Laboratory

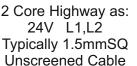








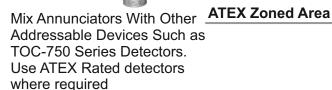








Use the Detector or Annunciator I/O Capability to Control Gas Supply Valves, Beacon-Sounders or other devices







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