

TOCSIN 750 SAMPLER

Advanced Addressable 2-Wire Gas Detection System

TOCSIN 750S Series are addressable Sampling Gas Detectors. As with all our 2 Wire Addressable devices, these can be added anywhere on an addressable cable run along with ATEX or safe area detectors. Sampling gas detectors allow you to provide gas detection in areas otherwise difficult to access or where the environment is too harsh to fit normal diffusion sensors. Featuring our unique piezo pump technology, our sampling gas detectors have virtually no moving parts and virtually silent in operation. Samplers can be setup to periodically automatically zero themselves (or calibrate in the case of Oxygen sensors). This provides unparalleled zero stability allowing wider ranges with lower alarm points.



▶ EASY TO INSTALL

Just one **2 Core** cable minimising costs
No cable polarity for fast & easy install
One-click auto-setup & self check, ready to use.

▶ PIEZO TECHNOLOGY

Field proven over many years service our piezo gas pumps have virtually no moving parts. Continuously monitored for performance and flow this system provides increased reliability over conventional pump systems. Virtually silent in operation these samplers can be fitted at any convenient point.

▶ CONTINUOUS DETECTION

Unlike sequential samplers, TOC-750S continuously samples and monitors the hazard, only pausing for periodic auto zero/cal.

▶ FLEXIBLE

Built in SSR outputs allow for easy integration of local beacon sounders and similar devices. Sample probes and filters are available to suit sampling from a wide variety of applications including: Freezers, cold stores, valve stations, sumps, glove boxes and more.

▶ REASSURINGLY COMPETENT

Designed and manufactured in the UK by IGD
Backup by 10-year Warranty*
All compliance supported by a third-party certification.



* Terms and Conditions Apply

Always use latest version data sheets from IGD website

Document Ref: T750S V3



internationalgasdetectors.com
+44 (0)161 483 1415
sales@internationalgasdetectors.com
/international-gas-detectors-ltd

Triton House
Crosby Street
Stockport
SK2 6SH

THE POWER OF

One 2 Core Cable - Everything Connected

TOCSIN 750 SAMPLER

Advanced Addressable 2-Wire Gas Detection System

The Sentinel +™ 2-Wire technology is an advanced digitally communicating gas detection system from IGD. The system provides fast efficient error free performance specifically designed to meet the unique requirements posed by gas detection hazards. The system provides ultimate flexibility to link your gas detection system to provide alarms, interface to plant shut down hardware and communicate clearly to BMS and similar systems. 2 Core cabling for both power and communication with no polarity requirement means cabling is minimised, reducing system costs with no compromise.

FEATURES

Auto Zero / Cal

Constant Flow Monitoring With Low Flow Protocols

1.0 to 1.5L/Min Sample Rate

4 off SSR Outputs

END OF LINE PROBES & FILTERS



T750



T635



T650

COMPATIBLE CONTROL PANELS



TOC 750S GAS SAMPLE MODULE

PN TOC-750S-CO2
 Voltage 24V DC
 Type 2-Wire Addressable
 D.O.M 03/2017
 Serial Number

www.internationalgasdetectors.com

bsi
UKAS

IGD

CO2
 Sample Port
 Do Not Exceed 20M
 Zero Port

One 2-Core Cable Run. Many Possibilities.
Up to 32 Detectors per a Cable Run.

TOC-750S-PN3

Sample Line Probe Typically Used to Monitor Through Insulated Walls into Cold Stores, Spiral Freezers and Similar. Can also be Used in Sumps and Pits. Usually Combined With an in-line filter unit to protect against dirt ingress.

TOC-750S-PN4

Standard End of Line Filter in a protective 316 SS Housing for Industrial Environments.

TOC-750S-PN2

Long Life End of Line Filter With Remote Gassing Port For Hard to Reach Locations



REPLACEMENT FILTER: TOC-750S-EOLR

EOL Filter Module: TOC-750S-EOL



TOC-750S-PN1

Thro' Wall/Ceiling Sample Point For Clean Rooms, Lab's and Similar. Luer Fitting Allows Additional Filters to be Fitted. Custom Legend Plates Available.

THE POWER OF

One 2 Core Cable - Everything Connected



Advanced Addressable 2-Wire Gas Detection System

One single 2-core cable with no required connection polarity connects all system devices. Auto find, Auto configure and Auto update, combined with our downloadable status reports are just some of the key features of the system. This gives you the peace of mind that you have the right gas detection system doing the right job. Protecting both your plant and personnel.

OPTIONS	SAFE AREA	ATEX	SAMPLER	RSI
Sensor I/P Toxic, IR, PID	1	1	2	N
Sensor I/P Pellistor	1	1	1	1
4-20mA I/P *	2	2 [†]	N	2
Digital I/P *	2	2 [†]	N	2
Counter I/P *	2	2 [†]	N	2
Relay O/P *	2	2 [†]	N	1
Digital O/P *	2	2 [†]	4	2
2 x 8 Display	N	1	N	1
Sounder	1 ^{††}	N	N	1
Estop	N	N	N	1
Key Switch	N	N	N	1

KEY

- Room Status Indicator
- Control Relay
- mA Input Signal
- Beacon - Sounder
- Digital Input
- E-Stop / Break Glass / Call Point

[†] In order to utilise this option a break out junction box is required.

* 2 Multi-Function I/O Ports. Option Selectable in Any Combination

^{††} 750B Version With Audible and Visual Alarms

① Number available per a detector.

Product Data

Document Ref: SL-007

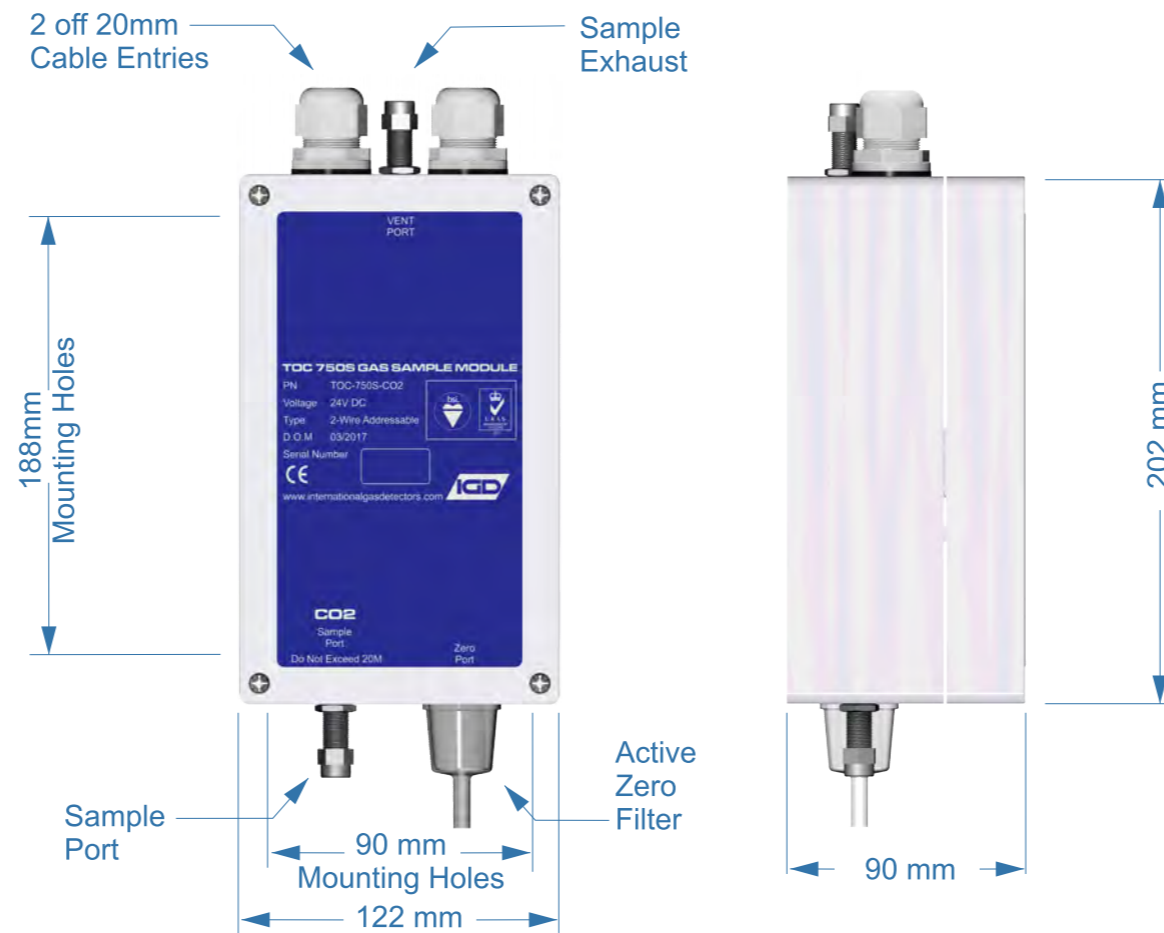
SPECIFICATIONS

Power	24V DC	Temperature	-5 to +55 Deg C Full Specification.
Construction	ABS	Humidity	20-90% RH Non-Condensing
Outputs (see table for version differences)	4 off SSR Outputs (Switched Neg 24V DC, Common 200mA load shared across all O/P's) Op1 Dedicated to Low Flow	Pressure	Samples From Ambient Pressure to 10mBar Depression, Low Flow Indication at 23mBar Depression
Comms	IGD Sentinel+ 2-Wire Protocol	Sealing	IP54
		Mounting	Wall Mount
		Weight	0.85Kg

ORDER CODES

Part Number	Description
TOC-750S-CO	Carbon Monoxide Sampler Standard Range 0-100ppm
TOC-750S-CO2	Carbon Dioxide Sampler Standard Range 0-5000ppm
TOC-650S-FIL	Standard End of Line Filter Assy
TOC-750S-H2	Hydrogen Gas Sampler Standard Range 0-2000ppm
TOC-750S-IRF	Flammable Gas Sampler Standard Range 0-100% LEL
TOC-750S-N2O	Nitrous Oxide Sampler Standard Range 0-1000ppm
TOC-750S-NH3	Ammonia Gas Sampler 0-500ppm
TOC-750S-O2	Oxygen Sampler Standard Range 0-25% Vol
TOC-750S-PN1	Luer Lock Thro' Wall Sampler Point M20
TOC-750S-PN2	Low Maintenance End of Line Filter Assy
TOC-750S-PN3	Sample Probe 1M Long With In-Line Filter
TOC-750S-PN4	Standard End of Line Filter Module
TOC-750S-TBE	20m Reel Sample Tube 6mm x 4mm Polyurethane

DIMENSIONS



FEATURES

- Auto Zero or Auto Cal Function
- Samples up to 20M
- SSR outputs to control beacon sounders and similar
- Can also be used as point detectors
- Tube end adaptors to suit a variety of applications
- Virtually silent in operation
- Almost no moving parts
- Long service life

CABLES

Supported Installation Cables 2 Core 1.5mmSQ or 2.5mmSQ
See IGD Cable System Calculator
Typically SWA, FP200, CY Screened or Similar





International Gas Detectors

EC Declaration of Conformity

Declares that the product listed as:

TOC-750S

Gas Detection Sampling Modules

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
2014/35/EU

EMC Directive
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 61000-6-2: 2005

EMC Generic standards. Immunity for industrial environments

EN 61000-6-4/A1: 2011

EMC 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

T750BB-TF9

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

Quality Assurance Certificate Number
16PQAN0014

Quality Assurance Notification Number:
2585



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



FS646773 EMS696504

Oliver IGD Limited operate an independently
assessed ISO9001:2015 Quality Management and
ISO14001:2015 Environmental Management System
Certificate Numbers
FS0646773 & EMS696504

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

Testing Agency:

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



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 17050-1:2010

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

Position: Managing Director

Date: 17 Feb 2020

Declaration Ref: T750S-JAN-1



FS646773

EMS696504



internationalgasdetectors.com

+44 (0)161 483 1415

sales@internationalgasdetectors.com

/international-gas-detectors-ltd

Triton House

Crosby Street

Stockport

SK2 6SH