PRODUCT DATA SHEET

www.internationalgasdetectors.com

OLIVER IGD

Control Systems — Transmitters — Sensors — Accessories

TOCSIN 750 SERIES
Advanced Addressable 2-Wire Gas Detection System

The latest addressable technology from International Gas Detectors.

Communication over Power

Only uses 2 Core Cable for Power and Communication.

Polarity Independent.

Typical System is 40% Faster to Install with Fewer Connections

Improved Reliability

Improved Connectivity to External systems

Re-use Existing Cabling When Updating
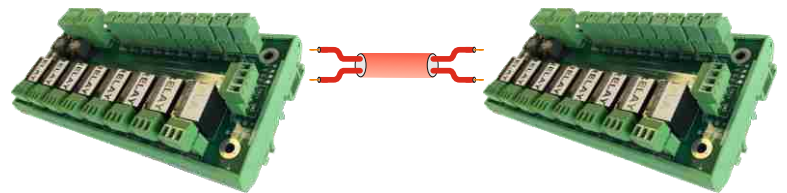
ATEX and Safe Area Gas Detectors

USB For Backup and Data Collection

Ethernet Connectivity

Full Event Monitoring, Time & Date Stamped

Rs485 BMS Connectivity

2-Wire Addressable I/O Cards Control Where its Needed

4 Data Highways Each Supporting up to 32 Gas Detectors/Devices Using 2 Core Cable

2 Core Cable

2 Wire Local Displays With Options for Slam Switches, Sounders Detectors and I/O

2 Wire Addressable Gas Detectors. Flammables, Toxic's, Oxygen

2 Wire Addressable ATEX Gas Detectors. Flammables, Toxic's, Oxygen

Standard Specifications

Power	110/230V AC 50/60Hz 24V DC Option
Construction	ABS
Display	260K Colour 7" 800x480 Touch with LED backlight
User	Full Touch Interface (Security USB Key Option)
Outputs	3 off SPCO Relays 4A Non-Inductive User Configurable 1 off Fault Relay SPCO Relays 4A Non-Inductive 1 off Solid State Beacon Sounder Output *Additional Digital Inputs/Relay Outputs Can Be Added To Highways if Required*
Other I/O	Sounder 80dB @ 100mm (Mutable) 2 off RS485 Ports Modbus Dedicated E-Stop/Slam Switch Input Dedicated Fire System Interlock Ethernet Port USB
Inputs	Up to 128 off Addressable Series Detectors or I/O Modules Over 4 Addressable Highways *Additional Highways Possible With Additional Hub Cards* *Note external Booster PSU may be required*
Temperature	-5 to 40 Deg C Full Specification. To 55 Deg C De-Rate PSU by 15%
Humidity	0-95% RH Non-Condensing
Sealing	IP54
Mounting	Wall Mount
Weight	1.75Kg

Standard Features

3 Alarms Levels Programmable Per Detector

Alarms Configurable as Rising, Rising Latching, Falling, Falling Latching

Full Interface Capability With Two RS485 Interfaces For Modbus

Full Modbus Memory Map, Read from All Connected Devices to External BMS/SCADA/DCS Systems.

Set up From Control Panel of PC Interface

Optional Internal Battery Backup or External Battery Backup

If Fitted, Battery Backup status Indicated From On Screen Display

1 Second Update For All Connected Devices

Sensor Check Function Automatically checks For Correct and Timely Calibration and Operation

Continuous Error Checking

Calibration Possible At Sensor or From Controller

Events Logging For up to 1000 Events Time and Date Stamped

Extensive Service and Calibration Features

Meets the Requirements of EN 60079 Series of Standards For Gas Detection.

PRODUCT DATA SHEET

EC Declaration of Conformity

Issuers name and address:

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

CE

Declares that the product listed as:

TOCSIN 750

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 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/A1:2011 — 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   T750-TF9

Product Markings   CE   **TOC-750**   S/-*serial number*

Oliver IGD Limited Operate and Independently assessed ATEX/IECEX QAN.	Oliver IGD Limited operate an independently assessed ISO9001:2008 Quality Management System.	Testing Agency:
Quality Assurance Certificate Number **ExVeritas 16PQAN0014**	Quality Management Certificate Number **FS 646773**	TUV - SUD Octagon House Concorde Way PO 15 5RL Fareham
Quality Assurance Notification Number: **2585**		
ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, UK, LL13 9UZ	BSI Assurance UK LTD, Chiswick High Road, London W4 4AL UK	TUV SUD Mehr Sicherheit. Mehr Wert.

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

Issued on: 20th Feb 2016   At Oliver IGD Limited, Stockport, SK2 6TS , United Kingdom

Signature:

Name   Andrew J Collier M.I.O.D

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

Position: Managing Director   Date: 20th Feb 2016   Declaration Ref: T750-DEC-3

IGD
International Gas Detectors
CH4 H2S CO2
N2 SO2 NO2 CO

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Website: www.internationalgasdetectors.com

bsi.
UKAS
MANAGEMENT
SYSTEMS
003
FS646773
Ref: T750D

Tocsin 750 Physical

Top Face — 360mm, 10 off 20mm Cable Entries, 30mm, 56.5mm, 20mm, 48.5mm

Front Face — 382mm, 292mm, 134mm

Side Face — 120.5mm, 72mm
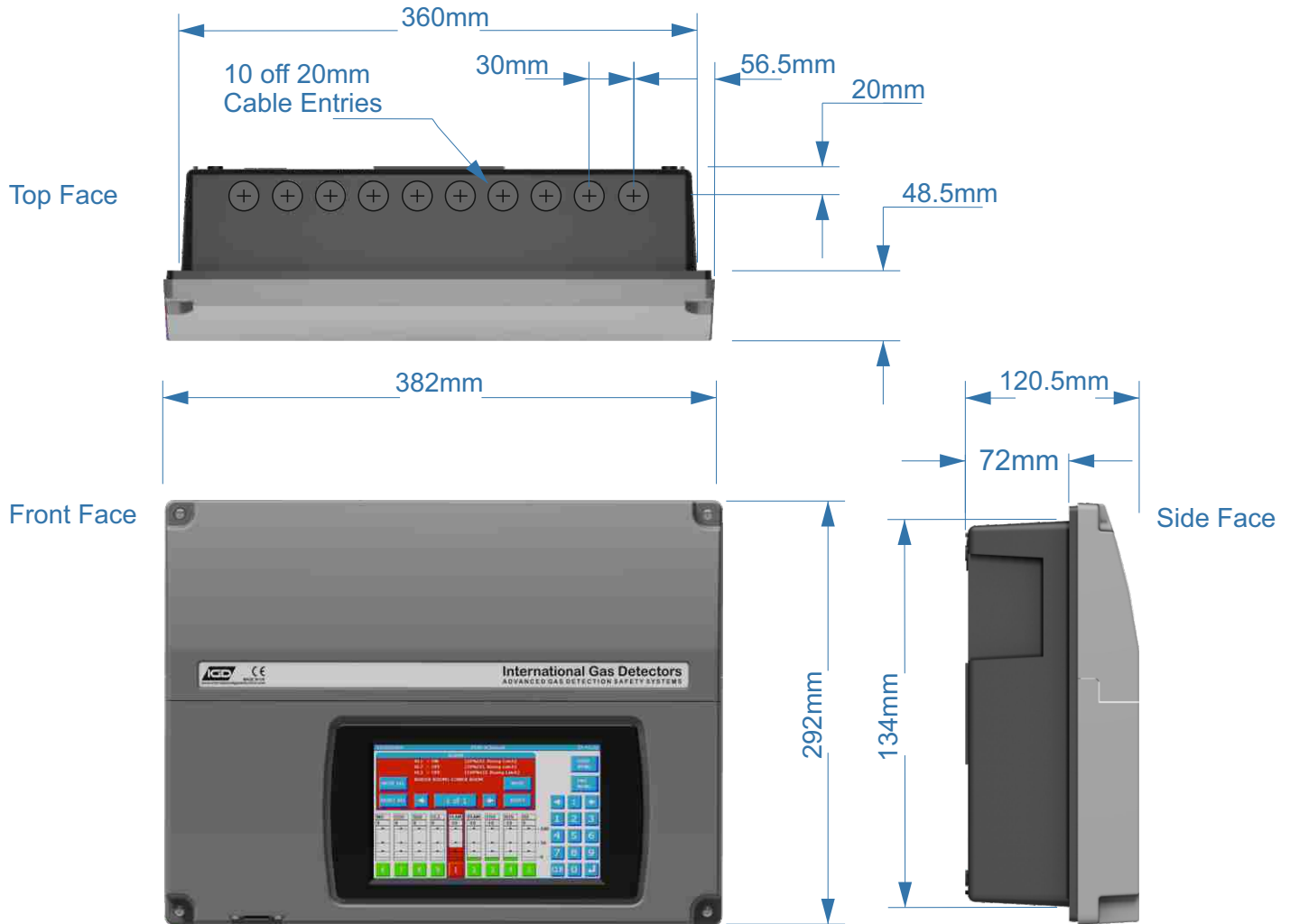
Installation Cables

Supported Installation Cables 2 Core 1.5mmSQ or 2.5mmSQ See IGD Cable System Calculator

Typically SWA, MICC, FP200, SY, CY, H03VVH2-F Mains Cable Unscreened or Similar

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Control Systems — Transmitters — Sensors — Accessories

Order Codes

TOCSIN 750 Series Controller

Part Number	Description
TOC-750-24	24V DC Control Panel No Internal PSU Standard Features inluding HMI Display 4 Relays, 4 Highways
TOC-750-150B	110/230V AC Control Panel 150W PSU Standard Features inluding HMI Display 4 Relays, 4 Highways 4AH Internal Battery Backup
TOC-750-150	110/230V AC Control Panel 150W PSU Standard Features inluding HMI Display 4 Relays, 4 Highways
TOC-750-300B	110/230V AC Control Panel 300W PSU Standard Features inluding HMI Display 4 Relays, 4 Highways 4AH Internal Battery Backup
TOC-750-300	110/230V AC Control Panel 300W PSU Standard Features inluding HMI Display 4 Relays, 4 Highways

TOCSIN 750 Series Annunciator
Options With:
Display, Relay Output, Digital or
Analogue Input, Flammable Gas Detector

TOCSIN 750 Series Detectors
Flammable Gases, Toxic Gases
Oxygen

TOCSIN 102 Series Detectors 2-WIRE
Flammable Gases, Toxic Gases
Oxygen For ATEX Applications

IGD

International Gas Detectors

CH4 H2S CO2 NO SO2 NO2 CO

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bsi. UKAS MANAGEMENT SYSTEMS 003

FS646773
Ref: T750D

PRODUCT DATA SHEET

System Example

Use Annunciators For Door Entry Control.

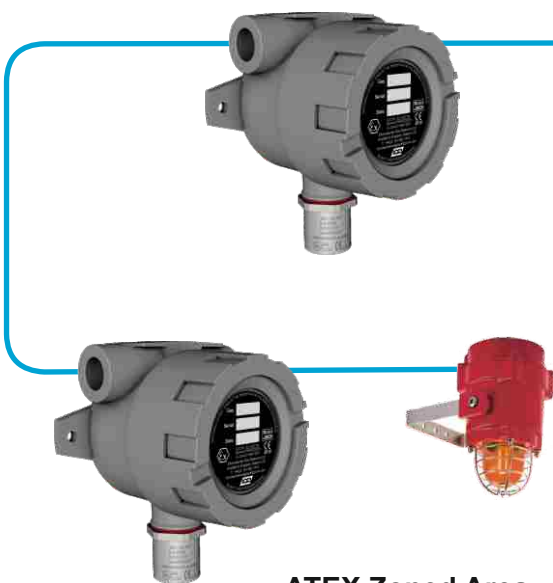Use Annunciators with Gas Detector Interfaces to Detect & Alarm in Specific Areas

Controller in Supervisors Office

Laboratory

Mix Annunciators With Other Addressable Devices Such as TOC-750 Series Detectors. Use ATEX Rated detectors where required

Gas Bottle Store

2 Core Highway as:
24V   A,B
Typically 1.5mmSQ
Unscreened Cable

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

ATEX Zoned Area