LICATION DATA SHE

Control Systems

Advanced Addressable 2-Wire Gas Detection System

2-Wire Addressable International Gas Detectors

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**

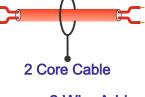


4 Data Highways Each Supporting up to 32 Gas Detectors/Devices Using 2 Core Cable



2 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



Triton House Crosby Street Stockport SK2 6SH England

Tel: +44 (0)161 483 1415 Fax: +44 (0) 161 484 2345 Email: sales@internationalgasdetectors.co.uk Website: www.internationalgasdetectors.co.uk



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FMS696504

Control Systems

Transmitters

Sensors

Accessories

Standard Specifications

Power 150W PSU @ 110V AC Nominal (88 to 127 V AC

50/60Hz by selection)

150W PSU @ 230VAC Nominal (190 to 260V AC

50/60Hz by selection)

300W PSU (88 to 260V AC 50/60Hz by selection)

24V DC Option

Construction Wall Mount Units ABS, Rack Units Al Alloy

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 and Rack Mount Options

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 / HMI

Full Modbus Memory Map, Read from All

Connected Devices to External BMS/SCADA/DCS

Systems.

Set up From Control Panel or Android APP

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

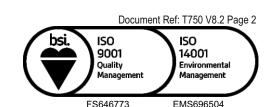
Extensive Service and Calibration Features

Meets the Requirements of EN 60079 Series of

Standards For Gas Detection.



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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:

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

2014/35/EU 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.

EN60079-29-1:2016 Explosive Atmospheres. Gas detectors. Performance Requirements Of Detectors For Flammable

Gases.

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 T750-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



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 EMC Tested by:

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



Certificate Number **E8N 15 05 91327 004**

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 Position:

Andrew J Collier M.I.O.D Managing Director

Date: 17 May 2019

Declaration Ref: T750-DEC-3

Document Ref: T750 V8.2 Page 3

Solution

ISO
9001
Quality
Management

ISO
14001
Environmental
Management

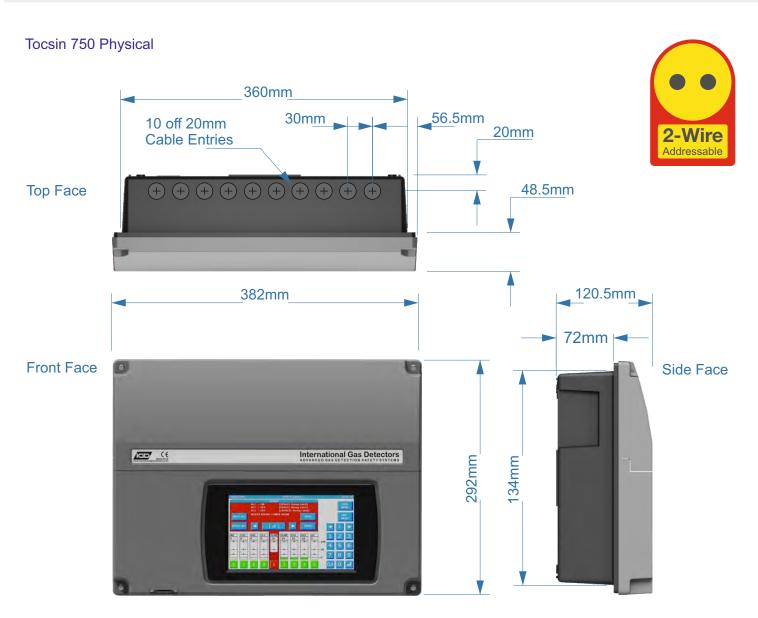
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APPLICATION DATA SHEET Control Systems Transmitters Sensors Accessories

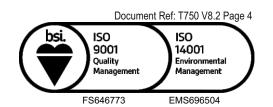


Installation Cables

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



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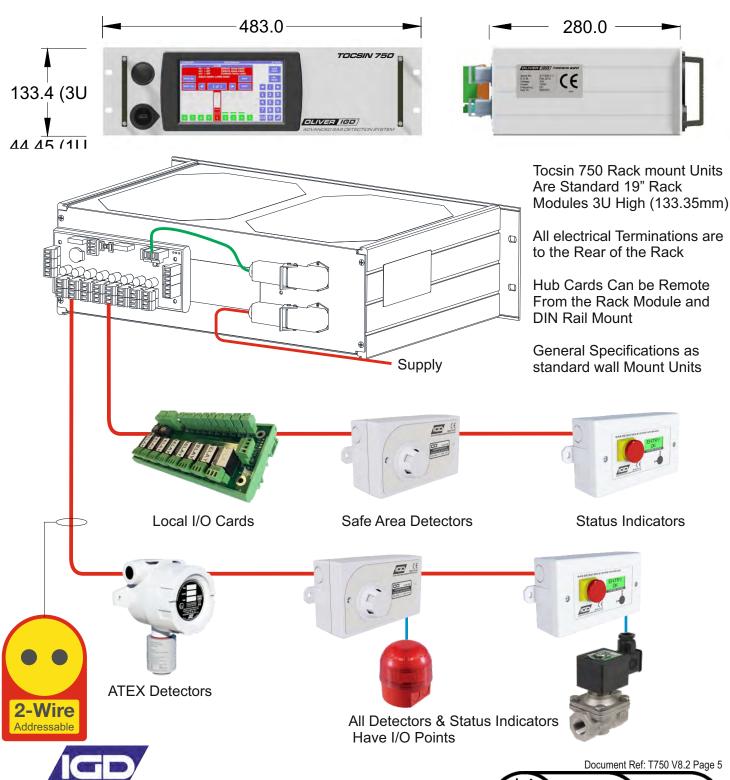
Control Systems

Transmitters

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Tocsin 750 Series 19" Rack Mount Controller



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ISO
9001
Quality
Management

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Control Systems

Transmitters

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Accessories

Order Codes

Part Number	Description
-------------	-------------

TOC-750-24 24V DC Control Panel No Internal PSU

TOC-750-150B 110/230V AC Control Panel 150W PSU

4AH Internal Battery Backup

TOC-750-150 110/230V AC Control Panel 150W PSU

TOC-750-300B 110/230V AC Control Panel 300W PSU

4AH Internal Battery Backup

TOC-750-300 110/230V AC Control Panel 300W PSU

TOC-750R-24 24V DC 19" Control Panel No Internal PSU

TOC-750R-300 110/230V AC Control Panel 150W PSU

19" Control Panel

TOC-750-BAT1 TOC-750-BAT1

7AH Battery Backup

24V DC PSU AT 150W

NOTE: Use with 24V DC Version Tocsin 650/750

TOC-750-BAT2 TOC-750-BAT2

17AH Battery Backup

24V DC PSU at 300W

NOTE: Use with 24V DC Version Tocsin 650/750

TOC-750-BAT3 Booster Module With Battery Backup

5AH Battery Capacity 24V DC PSU at 150W

TOC-750-BAT4 Booster Module

24V DC PSU at 150W

General Specification all Controllers

HMI Display 4 Relays, 4 Highways Modbus Bluetooth

Full Specification Refer to Earlier Table



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TOCSIN 750 Series Controller



TOCSIN 750 Series Room Status Indicators Options With:

Display, Relay Output, Digital or

Analogue Input, Flammable Gas Detector



TOCSIN 750 Series Detectors Flammable Gases, Toxic Gases Oxygen

Oxygen



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

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LICATION DATA SHE

Control Systems

System Example



Use Room Status Indicators For Door Entry Control.



Use Room Status Indicators with Gas Detector Interfaces to Detect & Alarm in Specific Areas

Laboratory

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

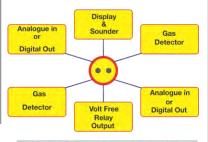




Mix Annunciators With Other ATEX Zoned Area Addressable Devices Such as TOC-750 Series Detectors. Use ATEX Rated detectors where required



2 Core Highway as: 24V L1,L2 Typically 1.5mmSQ screened Cable Refer to Installers Guide



Each Detector Node Has Multiple I/O





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

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Environmental

Management

ISO 14001