Control Panel

Product Data

Document Ref: SL-010 v11.5

ARE CER



International Gas Detectors

TOCSIN 650 & 750 SERIES

Advanced Addressable 2-Wire Gas Detection System

Introducing Tocsin 650 and 750 Series gas detection systems from IGD. These systems utilise ground-breaking Sentinel+™ intelligent addressable technology. More flexible than existing systems with better reporting and connectivity this technology ensures safety without compromise at reduced cost.

Enhanced detector nodes with their own I/O capability provide distributed control and data just where needed.



Typical system is 40% faster to install with fewer connections

▶ ALARM REPORTING & RECORDING

Full event monitoring, time & date stamped with email and SMS alerts available.
Cloud based data acquisition, see your data anywhere!

FLEXIBLE

Only uses 2-Core cable for power and communication.

Allows up to 128 Detector Nodes and 350 Devices.

▶ COST EFFECTIVE

New installs only use 2-Core cable minimising install costs.

► 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

TOCSIN 650

Always use latest version data sheets from IGD website



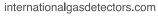


International Gas Detectors

TOCSIN 750



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sales@internationalgasdetectors.com /international-gas-detectors-ltd Triton House Crosby Street Stockport SK2 6SH





TOCSIN 650 & 750 SERIES

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



Full 7" Colour Touch Screen Interface. Or 2x8 Colour RGB Display and Jog Wheel

Clear Audible and Visual Alarms

Assignable LED's Clearly Show Where the Alarm is.





Flush or Rear Mount

Top or Bottom or Rear Cable entries



Many Possibilities

One 2-Core Cable Run

4 Detector Highways

with up to 32 Detectors

per a Highway



OPTIONS

ATEX Detectors

Safe Area (Non ATEX) Detectors

TOCSIN 750 Shown

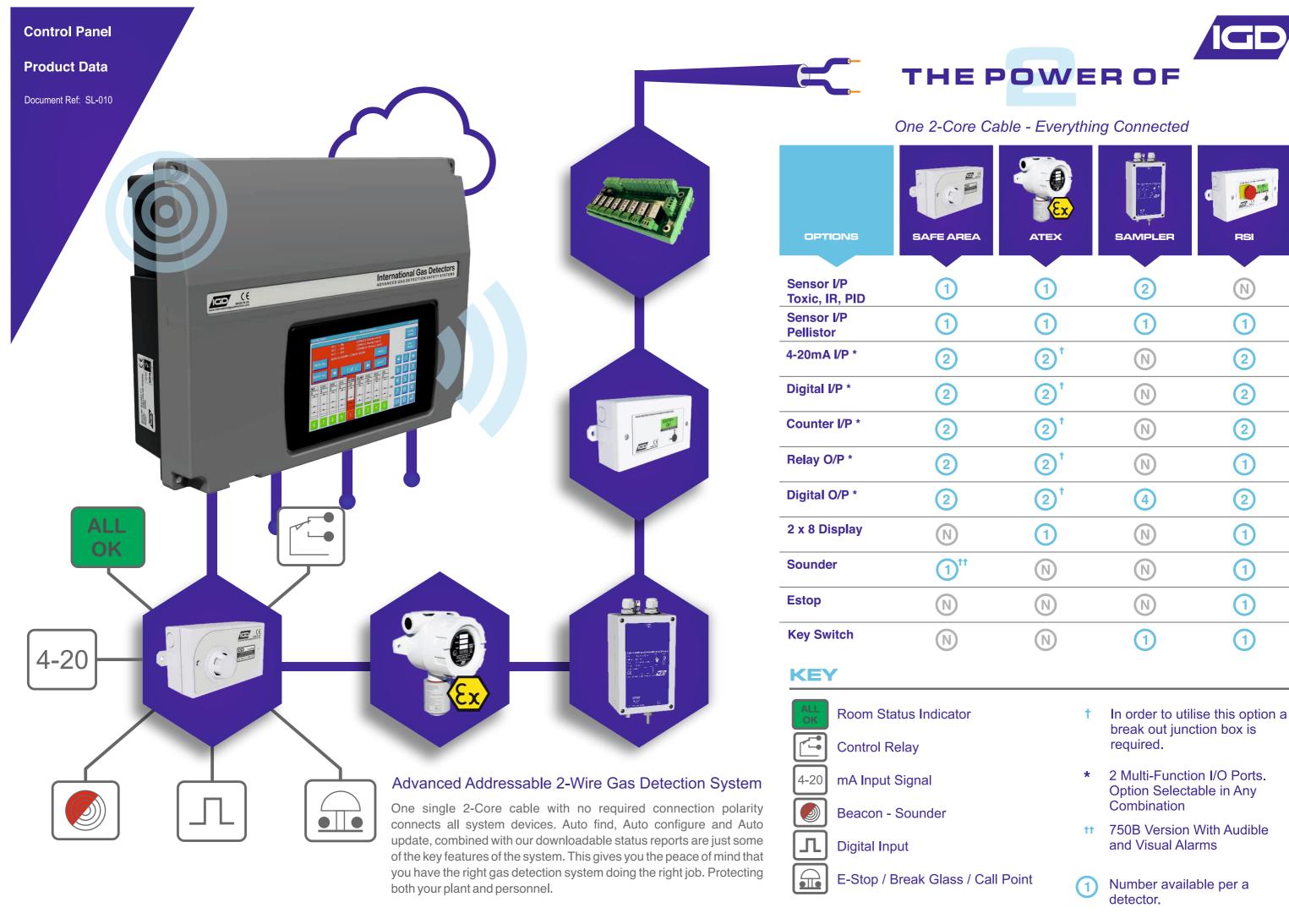
I/O Cards

Room Status Indicators

Sampling Gas Detectors

Audible Visual Alarms

Illuminated Signs



Product Data

Document Ref: SL-010

SPECIFICATIONS

Power 175W PSU @ 110V AC Nominal (88 to 127 V AC

50/60Hz by selection)

175W PSU @ 230VAC Nominal (190 to 260V AC

50/60Hz by selection)

340W PSU (88 to 260V AC 50/60Hz by selection)

Construction ABS

Display 2 Lines x 8 Digit LCD Display

Multi-Colour Backlight (Red-Alarm, Yellow-Fault,

Blue-Normal) or 7" Touch Screen

User T650 - IGD Jog Wheel Option Select

T750 - Full Touch Interface

Outputs 3 off SPCO Relays 4A Non-Inductive User

(see table for Configurable

version 1 off Fault Relay SPCO Relays 4A Non-Inductive differences) 1 off Solid State Beacon Sounder Output

Additional Digital Inputs/Relay Outputs Can Be

Added To Highways if Required

Other I/O Sounder 85dB @ 100mm (Mutable) 2 off RS485 Ports Modbus

Dedicated E-Stop/Slam Switch Input **Dedicated Fire System Interlock**

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

Output by 30%

Humidity 0-95% RH Non-Condensing

Sealing IP54

Mounting Wall Mount

Weight 1.75Kg

DIMENSIONS

Please Note: These dimensions apply to both the T650 Controller and T750 Controller.

FEATURES

Full Colour HMI Touch Screen or

Jog Wheel & LCD Display

HMI Touch Screen can be Remote Mounted

Top, Bottom or Rear Cable Entries

Alarms and Events recorded Time and Date Stamped, easily downloaded as a report

Intelligent Sensor Check Function

Independently Tested to IEC 60079-29-1

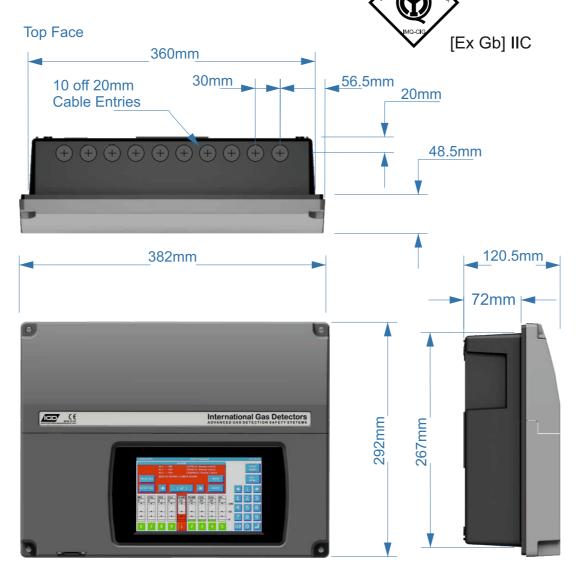
Automatically detects sensor changes and updates channels, no need to manually update when changing gas types and or ranges.

Available with built in battery backup module

GSM module available to text/email alarms and system reports

Cloud link enables view of controller from any cloud connected

device, PC, tablet, phone.



Front Face Side Face

ORDER CODES

TOC-650-150

Part Number Description

> 110/230V AC Control Panel 150W PSU Standard Features including 2 x 8 RGB Display and Jog Wheel

4 Relays, 4 Highways

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

> Standard Features inluding 7" Touch Screen

4 Relays, 4 Highways Built in 5AH Battery Backup

TOC-750-BAT1 110/230V AC Power Module 300W PSU

5AH Battery Backup

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

TOC-750-BAT2 110/230V AC Power Module 300W PSU

17AH Battery Backup

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

CABLES

Installation Cables

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

Typically SWA, FP200, CY Screened









Declaration of Conformity

Declares that the product listed as:

TOC-650 TOC-750

Addressable Gas Detection Control Panel

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 United Kingdom and European Directive(s) when installed, operated, serviced and maintained in accordance with the installation and operating instructions contained in the product documentation.

United Kingdom

Electromagnetic Compatibility Regulations 2016 Electrical Equipment (Safety) Regulations 2016

European Union

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.

IEC 60079-0:2017 7th Ed **Explosive Atmospheres Equipment General Requirements**

IEC 60079-29-1:2016 2nd Ed Explosive Atmospheres. Gas Detectors. Performance Requirements of Detectors for

Flammable Gases.

IEC 50270 Electromagnetic compatibility - Electrical Equipment for the Detection and Measurement of

Combustible Gases, toxic Gases or Oxygen

IEC 60529 Degree of Protection to IP54

IEC 60068-2-6 Vibration

IEC 60335:2012+A11:2014 **Electrical Safety**

T750-TF9/T650-TF9 Technical File Reference

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

Quality Assurance Certificate Number 16PQAN0014

Quality Assurance Notification Number: 2804



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**



IMQ S.p.A con Socio Unico Via Quintiliano 43 Italia 20138 Milano www.imq.it

[Ex Gb] IIC

Report Ref AT19-0036585-01

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

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: 23 November 2022 Declaration Ref: T750-DEC-9









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