Control Panel

Product Data

Document Ref: SL-010

TOCSIN 650

IGD (E



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.

EASY TO INSTALL

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

Devices.

Only uses 2-Core cable for power and communication. Allows up to 128 Detector Nodes and 350

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

Always use latest version data sheets from IGD website





International Gas Detectors

International Gas Detectors

TOCSIN 750







OPTIONS

ATEX Detectors

Room Status Indicators

Sampling Gas Detectors

Audible Visual Alarms

Illuminated Signs

I/O Cards

Safe Area (Non ATEX) Detectors



One 2-Core Cable - Everything Connected



4 Detector Highways with up to 32 Detectors per a Highway

One 2-Core Cable Run Many Possibilities

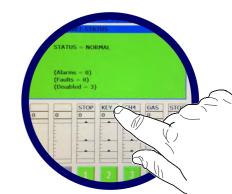




Advanced Addressable 2-Wire Gas Detection System

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.



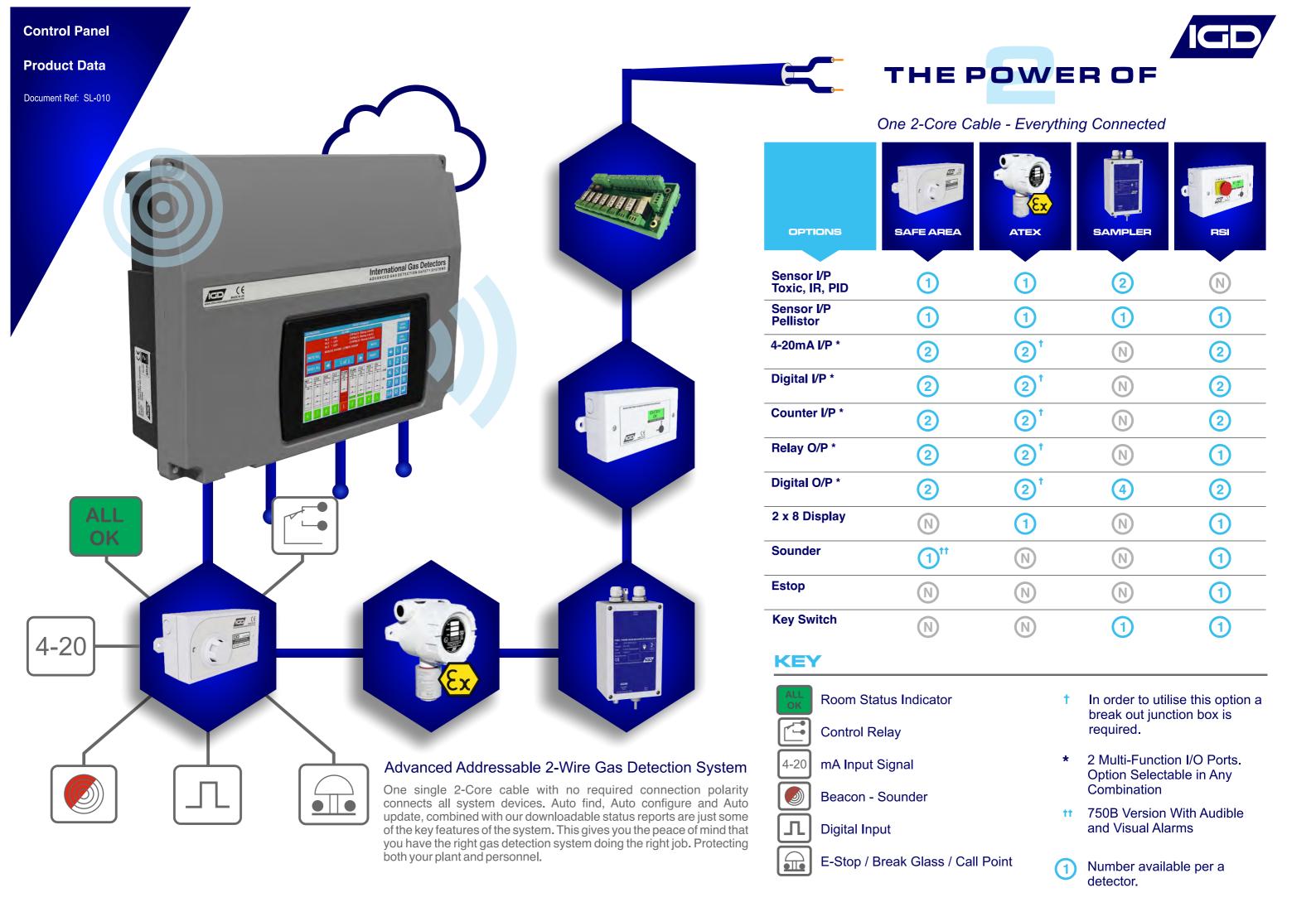


Flush or Rear Mount

Top or Bottom or Rear Cable entries



Cloud and GSM Options



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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

Over 4 Addressable Highways Additional Highways Possible With Additional Hub Cards 2 Lines x 8 Digit LCD Display Note external Booster PSU may be required

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

Sealing

Mounting

Weight

IP54

Wall Mount

1.75Kg

Inputs

Other I/O

Blue-Normal) or 7" Touch Screen Temperature -5 to 40 Deg C Full Specification. To 55 Deg C De-Rate PSU Output by 30%

T650 - IGD Jog Wheel Option Select 0-95% RH Non-Condensing Humidity

T750 - Full Touch Interface

Outputs 3 off SPCO Relays 4A Non-Inductive User (see table for Configurable

1 off Fault Relay SPCO Relays 4A Non-Inductive version differences)

1 off Solid State Beacon Sounder Output Additional Digital Inputs/Relay Outputs Can Be

Added To Highways if Required

ORDER CODES

Part Number Description

24V DC Control Panel No Internal PSU TOC-650-24

Standard Features including 2 x 8 RGB Display and Jog Wheel

4 Relays, 4 Highways

110/230V AC Control Panel 150W PSU TOC-650-150

Standard Features including 2 x 8 RGB Display and Jog Wheel

4 Relays, 4 Highways

110/230V AC Control Panel 150W PSU TOC-650-150BB

Standard Features inluding 2 x 8 RGB Display and Jog Wheel

4 Relays, 4 Highways Built in 1.2AH Battery Backup

TOC-650-150B1 110/230V AC Control Panel 150W PSU Standard Features inluding

2 x 8 RGB Display and Jog Wheel

4 Relays, 4 Highways Built in 5AH Battery Backup

TOC-650-300 110/230V AC Control Panel 300W PSU

Standard Features inluding 2 x 8 RGB Display and Jog Wheel

4 Relays, 4 Highways

TOC-650-300B1 110/230V AC Control Panel 300W PSU

Standard Features inluding 2 x 8 RGB Display and Jog Wheel

4 Relays, 4 Highways

Built in 5AH Battery Backup

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

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

Booster Module With Battery Backup TOC-750-BAT3

5AH Battery Capacity

24V DC PSÚ at 150W

TOC-750-BAT4 **Booster Module** 24V DC PSU at 150W

DIMENSIONS

Display

User

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

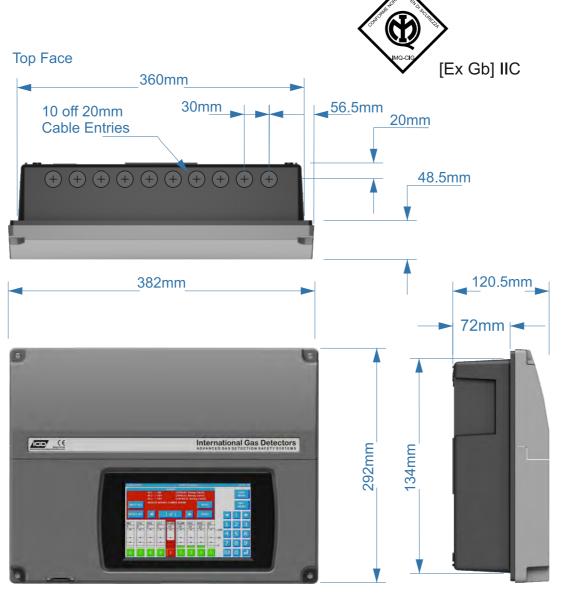
Independently Tested to IEC 60079-29-1

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.





Sounder 85dB @ 100mm (Mutable)

Dedicated E-Stop/Slam Switch Input

Up to 128 off Addressable Series Detectors or I/O Modules

Dedicated Fire System Interlock

2 off RS485 Ports Modbus

Front Face Side Face

CABLES

Installation Cables

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

Typically SWA, FP200, CY Screened





EC Declaration of Conformity

Declares that the product listed as:

Issuers name and address:

TOC-650 TOC-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.

Oliver IGD Limited of Triton House Crosby St, Stockport, SK2 6SH United Kingdom

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.

EN 50270

Electromagnetic compatibility - Electrical Equipment for the Detection and Measurement of

Combustible Gases, toxic Gases or Oxygen

IEC 60529 Degree of Protection to IP54

EN 60068-2-6

EN 50271

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

Electrical Safety

Vibration

Technical File Reference

EN 60335:2012+A11:2014

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

T750-TF9/T650-TF9



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**



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[Ex Gb] IIC

Report Ref AT19-0036585-01

Declaration Ref: T750-DEC-8

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

Signature:

Name:

Andrew J Collier M.I.O.D

Position: **Managing Director** Declaration of Conformity in accordance with EN ISO/IEC 17050-1:2010

Date: 17 Feb 2020



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