Control Panel

Product Data

Document Ref: SL-003 v12



International Gas Detectors

TOCSIN 635 SERIES

Advanced Addressable 2-Wire Gas Detection System

The TOC-635 system controller From IGD uses the latest Sentinel+ ™ digitally addressable technology. Specifically designed for gas detection systems Sentinel+™ combines fast reliable response, data security and easy to use error proof features for the system you need.



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

SIMPLE SERVICING

Hot-swap detectors for exchange without engineer cost.

Auto-detect allows simple changes with no call out costs.

Inbuilt web pages enable you to view and download Events.

FLEXIBLE

Single cable interconnection to other devices Add or remove devices with a simple Find

function to update controller.
Install ancillaries locally to the nearest detector.

COST EFFECTIVE

Low-cost system for 1-8 or 1-32 devices
Single cable can save you 70-80% install costs
Auto setup removes commissioning 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







internation algas detectors.com

Crosby Street

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Stockport SK2 6SH

Triton House

Illuminated Signs.



One 2-Core Cable - Everything Connected



Modbus



TOCSIN 635 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



One Touch Set up Wizard.

Automatically Detect And Install System.



Assignable LED's Clearly Show Where the Alarm is.





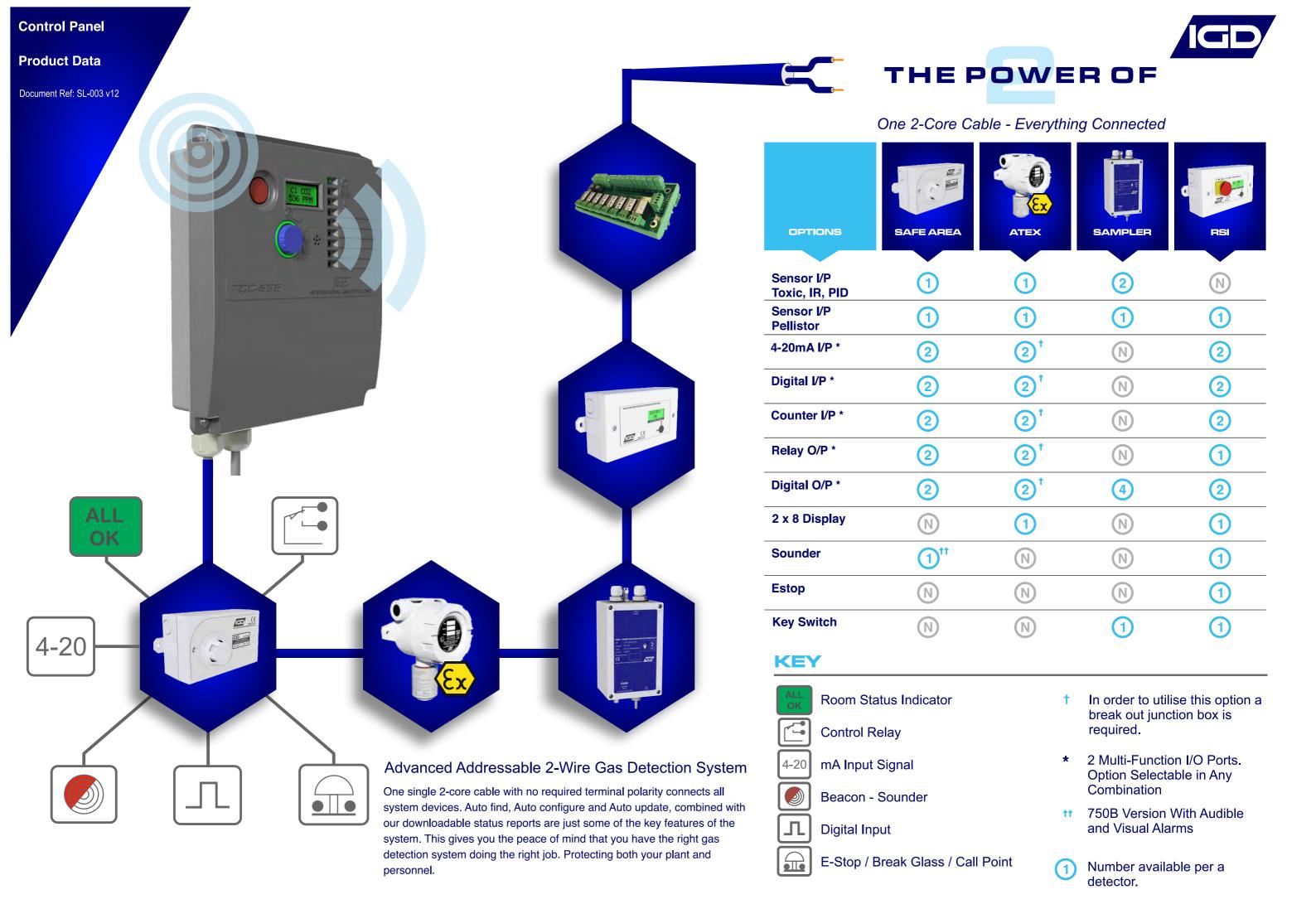
Flush or Rear Mount.

Top or Bottom or Rear Cable entries.

Built in Slam Switch Alarm.

All Your Interfaces in One Place.





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SPECIFICATIONS

Power	230V AC 50Hz 55W	Other I/O	Sounder 85dB @ 300mm (Mutable)
Construction	ABS		1 off RS485 Port Modbus in/out (PLUS only) 2 off Multi-Function Inputs mA or Digital (PLUS only)
Display	2 Lines x 8 Digit LCD Display Multi-Colour Backlight (Red-Alarm, Yellow-Fault, Blue-Normal)	Inputs	6 User Defined Alarm Indication LEDs Illuminated RGB Light Ring, Alarm, Fault, Menu etc SSR
User	IGD Jog Wheel Option Select, Alarm Reset, RGB		Up to 8 or 32 off Addressable Series Detectors or I/O Modules see feature table
Outputs (see table for	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	Temperature	Note external Booster PSU may be required
version differences)			-20 to +55 Deg C Full Specification. To 55 Deg C De-Rate PSU output by 30%
	Additional Digital Inputs/Relay Outputs Can Be	Humidity	
	Added To Highways if Required see feature table for model differences	Sealing	20-90% RH Non-Condensing
		J	IP54
		Mounting	

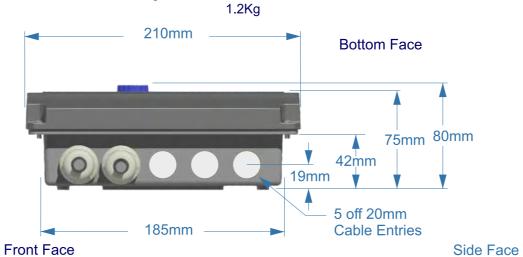
Weight

DIMENSIONS

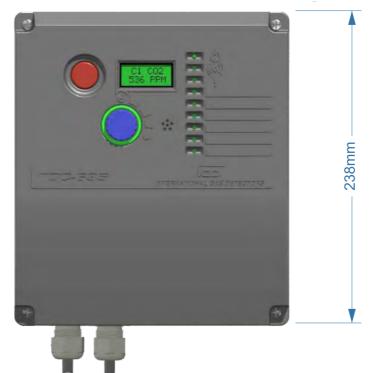
FEATURES

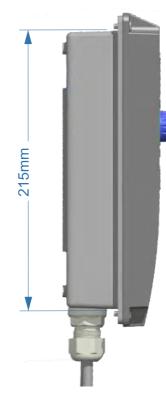
	TOC-635-PLUS	TOC-635-MICRO
Detector Ports	1	1
Supported Detectors/Modules*	99	99
On-Board relays	4	3
External Relays/SSR	99	99
Digital Inputs	2	0
WiFi Connectivity	YES	NO
Real Time Clock	YES	NO
RGB Display	YES	YES
Illuminated RGB Menu Wheel	YES	YES
6 Assignable Alarm LEDs	YES	YES
Sounder	YES	YES
Event Log Report	YES	NO
Beacon Sounder Output Port	YES	NO
Modbus Connectivity	YES	NO
Battery Backup Port	YES	NO
System Status Report	YES	NO
Calibration Status Report	YES	NO

*Note the number of detector nodes that can be run on the highway will be limited by the 635 power supply, this is detailed in the manual. Booster PSU's may be required.



Wall Mount





ORDER CODES

Part Number	Description			
TOC-635-PLUS	230V AC Control Panel 50W PSU Standard Features including 2 x 8 RGB Display and Jog Wheel 4 Relays, 1 Highway, 32 Devices			
TOC-635-MICRO	230V AC Control Panel Standard Features including 2 x 8 RGB Display and Jog Wheel 2 Relays, 1 Highway, 8 Devices			
TOC-635-BAT	External Battery Module 2 x 1.2Ah Batteries 0.5M Connection Cable			
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			
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			
TOC-750-IO2	Expansion I/O Card 8 Relay Outputs 10 Digital/Analogue Ports			
FB-BX-1	Field Accessory Box Fits 2 Expansion Cards (TOC-750-IO2)			





CABLES

Installation Cables

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

Typically SWA, MICC, FP200, SY, CY Screened or Similar







Declaration of Conformity

Declares that the product listed as:

Issuers name and address:

TOC-635-PLUS TOC-635-MICRO

Addressable Gas Detection Control Panel

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 Defectors 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 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

Technical File Reference

IEC 60335:2012+A11:2014

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

T635-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

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: 11 November 2020 Declaration Ref: T635-DEC-9







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