APPLICATION DATA SHEET

International Gas Detectors

ADVANCED GAS DETECTION

Control Systems

2-Wire Addressable **COSIN650SERIES** 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

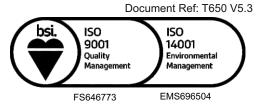
2-Wire Addressable I/O Cards Control Where its Needed

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

Data Highways Each Supporting 52 Gas Detectors/Devices Using 2 Core Ca

2 Wire Local Displays With Options for Slam Switches, Sounders Detectors and I/O 2 Wire Addressable Gas Detectors. Flammables, Toxic's, Oxygen 2 Core Cable

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 **APPLICATION DATA SHEET**

Control Systems

ransmitters

Sensors

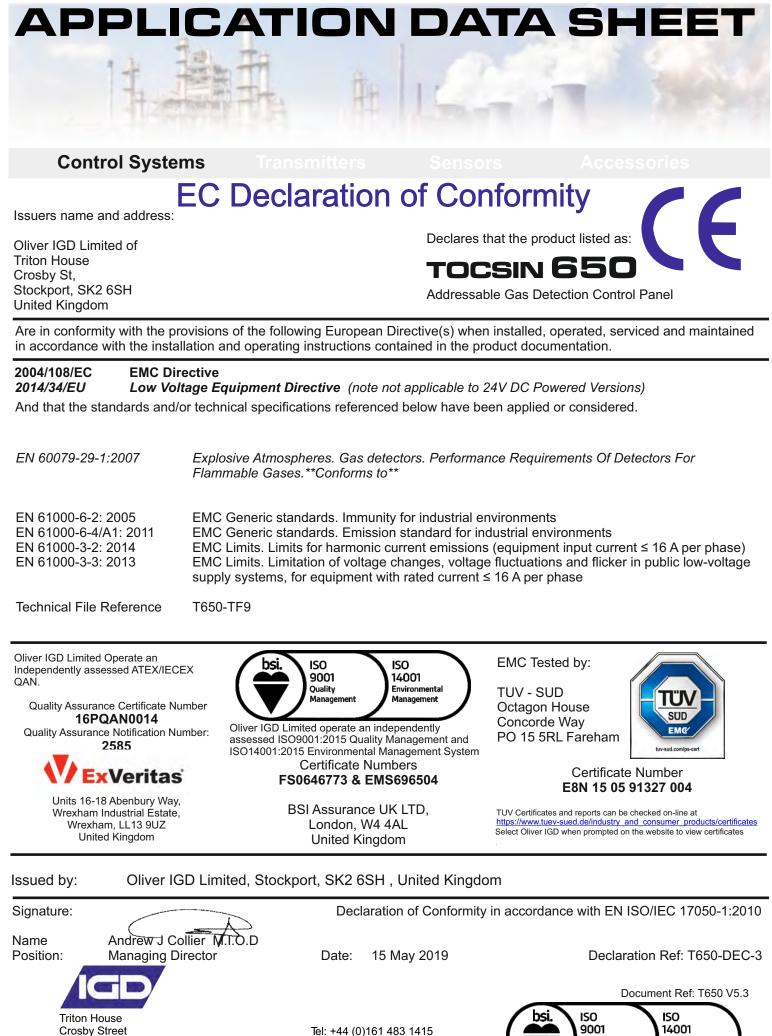
Accessories

Standard Specifications		Standard Features
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)	3 Alarms Levels Programmable Per Detector
		Alarms Configurable as Rising, Rising Latching,
		Falling, Falling Latching
Construction	ABS	Full Interface Capability With Two RS485
Display	2 Lines x 8 Digit LCD Display Multi-Colour Backlight (Red-Alarm, Yellow-Fault, Blue-Normal)	Interfaces For Modbus
		Full Modbus Memory Map, Read from All
		Connected Devices to External BMS/SCADA/DCS
User	IGD Jog Wheel Option Select	Systems.
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	Set up From Control Panel or Android Interface
		Арр
		Optional Internal Battery Backup or External
		Battery Backup
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	If Fitted, Battery Backup status Indicated From On
		Screen Display
		1 Second Update For All Connected Devices
		Sensor Check Function Automatically checks For
Inputs	Up to 128 off Addressable Series Detectors or I/O Modules Over 4 Addressable Highways Additional Highways Possible With Additional Hub Cards	Correct and Timely Calibration and Operation
		Continuos Error Checking
	Note external Booster PSU may be required	Calibration Possible At Sensor or From Controller
Temperature	-5 to 40 Deg C Full Specification. To 55 Deg C De- Rate PSU by 15%	Events Logging For up to 1000 Events Time and
		Date Stamped
Humidity	0-95% RH Non-Condensing	Extensive Service and Calibration Features
Sealing	lp54	Meets the Requirements of EN 60079 Series of
Mounting	Wall Mount	Standards For Gas Detection.
Weight	1.75Kg	



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Stockport

SK2 6SH

England

Management FS646773 EMS696504

Environmental

Management

Quality



Control Systems

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Sensor

Accessories

TOCSIN 650 PHYSICAL 360mm 30m<u>m</u> 56.5mm 10 off 20mm 20mm 2-Wire **Cable Entries** Addressable 48.5mm **Top Face** (+) (+) (+) (+)(+) (+)(+) (+)(+)(+)120.5mm 382mm 72mm 🛏 **Front Face** Side Face 100 International Gas Detectors 292mm 134mm TOCSIN-650

Installation Cables

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



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Order Codes

Part Number	Description
TOC-650-24	24V DC Control Panel No Internal PSU Standard Features inluding 2 x 8 RGB Display and Jog Wheel 4 Relays, 4 Highways
TOC-650-150	110/230V AC Control Panel 150W PSU Standard Features inluding 2 x 8 RGB Display and Jog Wheel 4 Relays, 4 Highways
TOC-650-150BB	110/230V AC Control Panel 150W PSU 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
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
IGD	



TOCSIN 750 Series Controller



TOCSIN 750 Series *Room Status Indicator* 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

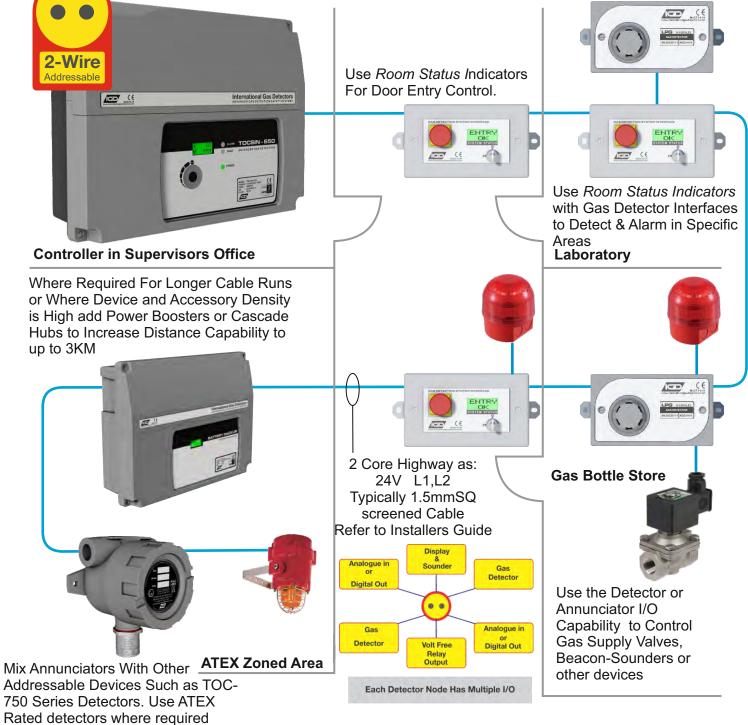


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