# **Product Data**

**TOCSIN 650** 

Document Ref: SL-010 v11.1

# **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.

#### **EASY TO INSTALL**

International Gas Detectors

International Gas Detectors

TOCSIN 750

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





Always use latest version data sheets from IGD website

- internationalgasdetectors.com
  - +44 (0)161 483 1415

C

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



One 2-Core Cable - Everything Connected

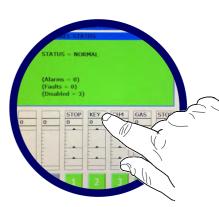
# ternational Gas Detectors ACD ((E TOCSIN 750 Shown **4 Detector Highways** with up to 32 Detectors per a Highway

One 2-Core Cable Run Many Possibilities



The Sentinel +<sup>™</sup> 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





Cloud and GSM Options



# TOCSIN 650 & 750 SERIES Advanced Addressable 2-Wire Gas Detection System



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





both your plant and personnel.

OWEROF	

One 2-Core Cable - Everything Connected

ATEX	SAMPLER	RSI
1	2	N
1	1	1
<b>2</b> <sup>†</sup>	N	2
<b>2</b> <sup>†</sup>	N	2
<b>2</b> <sup>†</sup>	N	2
<b>2</b> <sup>†</sup>	N	1
<b>2</b> <sup>†</sup>	4	2
1	N	1
N	N	1
N	N	1
N	1	1

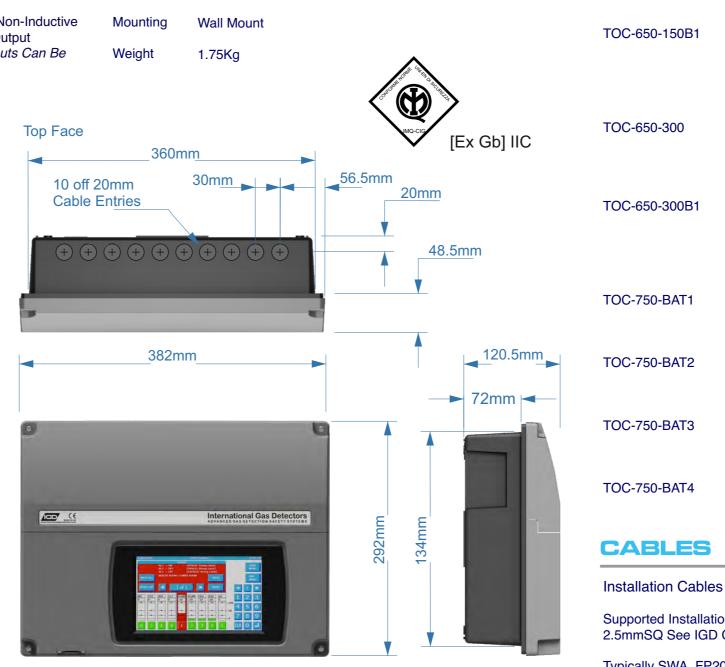
	t	In order to utilise this option a break out junction box is required.
	*	2 Multi-Function I/O Ports. Option Selectable in Any Combination
	tt	750B Version With Audible and Visual Alarms
pint	1	Number available per a detector.

# **Control Panel**

Product Da

Document Re

et Data	SPECI	FICATIONS	
Ref: SL-010	Power	175W PSU @ 110V AC Nominal (88 50/60Hz by selection) 175W PSU @ 230VAC Nominal (19 50/60Hz by selection) 340W PSU (88 to 260V AC 50/60H	90 to 260V AC
	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 Selec T750 - Full Touch Interface	ct
	Outputs (see table for version differences)	3 off SPCO Relays 4A Non-Inductiv Configurable 1 off Fault Relay SPCO Relays 4A N 1 off Solid State Beacon Sounder O Additional Digital Inputs/Relay Outp Added To Highways if Required	Non-Inductive Output
	DIME	NSIONS	
		These dimensions apply to both	Top Face
	the 1650 Con	troller and T750 Controller.	



Other I/O

Inputs

Humidity

Sealing

Sounder 85dB @ 100mm (Mutable)

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

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

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

2 off RS485 Ports Modbus

Over 4 Addressable Highways

0-95% RH Non-Condensing

Output by 30%

IP54

# 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





Front Face

Side Face

TOC-650-24

# Part Number

TOC-650-150

TOC-650-150BB

Typically SWA, FP200, CY Screened



# ORDER CODES

## Description

110/230V AC Control Panel 150W PSU Standard Features including 2 x 8 RGB Display and Jog Wheel 4 Relays, 4 Highways

- 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
  - 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
  - 110/230V AC Control Panel 300W PSU Standard Features inluding 2 x 8 RGB Display and Jog Wheel 4 Relays, 4 Highways
  - 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 5AH Battery Backup NOTE: Use with 24V DC Version Tocsin 650/750
  - 110/230V AC Power Module 300W PSU 17AH Battery Backup NOTE: Use with 24V DC Version Tocsin 650/750
  - Booster Module With Battery Backup **5AH Battery Capacity** 24V DC PSU at 150W
  - **Booster Module** 24V DC PSU at 150W

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



sales@internationalgasdetectors.com

Stockport

/international-gas-detectors-ltd

Management Management

EMS696504

S646773

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