

Control Systems

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Accessorie

FAULT

POWER

TOCSIN-640

ADVANCED GAS DETECTION

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TOCSIN 640 Pre-Configured Gas Detection System, CO2, O2 or N20

With all the features of a standard 640 system and pre-fitted with a detector and mains lead. Available with CO2, Oxygen or N2O detection. This version of the 640 is Pre-Calibrated and configured with standard alarms based on HSE document EH40. Ready to use within minutes of delivery with virtually no installation. The clear to read multi-colour display Provides clear indication of alarm status. Green in normal operation, flashing red on alarm and with level indication the system is simple to fit and operate. The built in sounder also provides clear indication of an alarm condition. Alarms automatically reset once the hazard is clear requiring no user input. Clear, Simple to use and effective protection.

Idea for use in:

Small Surgeries For Oxygen Depletion Monitoring CO2 Detection in Horticulture, Brewery Applications Background N2O Monitoring

Systems are shipped with factory calibration certificates. The gas detectors fitted have long life Infra-red or polymer cells fitted with typical operational life in excess of 5 years.

Features

Supplied Pre-Calibrated with Detector: CO2, Oxygen or N2O Easy to Wall Mount Pre-Fitted With Mains Lead Expand Later as Required With Additional Detectors: Relay Outputs as Standard 4-20mA Output as Standard RS485 Modbus as Standard Control up to 24 Devices as Gas Detectors or I/O Modules LCD Display With Multi Colour Backlight, Flashes Red on Alarm, Flashes Yellow on Fault etc E-Stop Input (System Configurable) Dedicated Interlock to Fire Systems (System Configurable)

Triton House

Stockport

SK2 6SH

England

Crosby Street



OLIVER CO

Tel: +44 (0)161 483 1415 Fax: +44 (0) 161 484 2345 Email: sales@internationalgasdetectors.com Website: www.internationalgasdetectors.com



EC Declaration of Conformity

Issuers name and address:

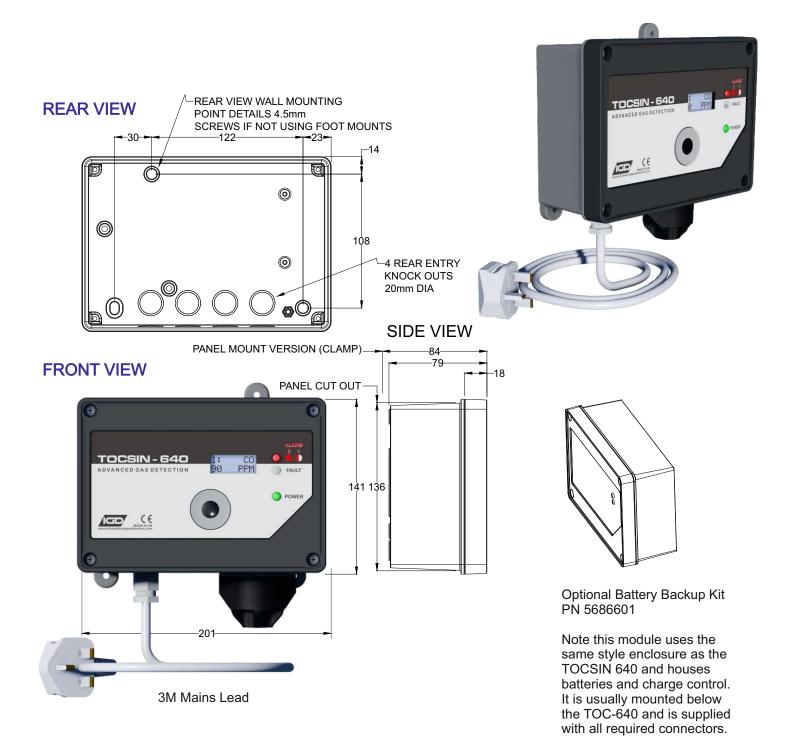
Oliver IGD Limited of Triton Hous, Crosby Street, Stockport, Sk2 6SH England



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.

2004/108/EC 2006/95/EC	EMC Directive Low Voltage Equipment Directive (note not applicable to 24V DC Powered Versions)
And that the stand EN 61779-1:2000	ards and/or technical specifications referenced below have been applied or considered. Electrical apparatus for the detection and measurement of flammable gases, general requirements and test methods.
EN 50271:2010	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. <i>Excluding requirements for SIL</i>
EN 61000-6-2:200 EN 61000-6-4:200 EN 61000-3-2:201 EN 61000-3-3:201	 EMC Generic standards. Immunity for industrial environments T/A1:2011 EMC Generic standards. Emission standard for industrial environments EMC Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
Technical File Refe	

Product Mark	ings (Є тос-64	• S/-seri	al number		
Oliver IGD Limited Operate and Independently assessed ATEX/IECEX QAN. Quality Assurance Certificate Number ExVeritas 16PQAN0014		Oliver IGD Limited operate an independently assessed ISO9001:2008 Quality Management System. Quality Management Certificate Number		ed Testing Agency: TUV - SUD Octagon House Concorde Way	SUD
Quality As	ssurance Notification Number: 2585		FS 646773	PO 15 5RL Fareham	
ExVeritas, Units 16-18, Abenbury Way, Wrexham Indus Wrexham, UK,		BSI Assurance U Chiswick High Re London W4 4AL UK	,		Mehr Sicherheit. Mehr Wert.
TUV Certificate	s and reports can be checked on-	line at https://www	w.tuev-sued.de/industry_and_consume	er_products/certificates	
Issued on:	20th Feb 2016	At Oliver IGD L	imited, Stockport, SK2 6SH , I	United Kingdom	
Signature:		Declara	ation of Conformity in accordance	e with EN ISO/IEC 17	7050-1:2010
Name		Andrev	v J Collier M.I.O.D		
Position:	Managing Director	Date:	20th Feb 2016 De	eclaration Ref: TOC-	640-DEC-2

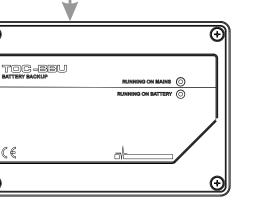




ORDER CODES

TOCSIN 640 Controller 110/230V AC FOR CO2	TOC-640-CO2
TOCSIN 640 Controller 110/230V AC FOR O2	TOC-640-O2
TOCSIN 640 Controller 110/230V AC FOR N2O	TOC-640-N2O
Controller Panel Mount Kit	5686401
Battery Backup Module	5686601

Combine Controllers With Detectors and I/O Nodes as Required





Use with TOC-30 Series Detectors and I/O modules. ABS housed detectors sealed up to IP65 rating.

This detector series is standard 2 gang mount for surface, flush mounting or mounting to dado rail.

Interface to TOC-30 Series annunciators for additional I/O functions. The smart alternative to beacons, sounders and slam switches.



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Use with Tocsin 103 Series detectors. IP Rated steel enclosures for harsh industrial environments.

Use with Tocsin 102 Series detectors for hazardous area applications requiring ATEX approved equipment Interface to TOC-20 Series Infra Red CO2 Sensors. Reliable accurate CO2 monitoring with humidity and temperature readings.

Flammable Gas Detection Toxic Gas Detection Oxygen Depletion

Protecting People Since 1917

Standard Specifications

Power	110/230V AC 50/60Hz 25W Standard 24V DC Option
Construction	ABS
Display	2 Lines x 8 Digit LCD Display Multi-Colour Backlight (Red-Alarm, Yellow-Fault, Blue-Normal)
User	IGD Jog Wheel Option Select
Outputs	3 off SPCO Relays 4A Non-Inductive User Configurable 1 off 4-20mA Linear Output User Configurable
Other I/O	Sounder 80dB @ 100mm (Mutable) RS485 Port Modbus Dedicated E-Stop Input Dedicated Fire System Interlock
Inputs	Up to 24 off Addressable Series Detectors or I/O Modules Note external Booster PSU may be required
Temperature	-5 to 55 Deg C
Humidity	0-95% RH Non-Condensing
Sealing	IP54
Mounting	Wall Mount, Panel Mount Kit Option, Duct Mount Kit Option

Weight 840g

Sensor Accuracies & Response Times

Sensor Response times and accuracies are determined by the type of sensor used. The following table provides general guidance for tests carried out by IGD at standard conditions.

Туре	T90 Response	Accuracy
Pellistors	<10s	+/-2% LEL
Infra Red	<15s	+/-2% of Range
Electrochemical as CO,H2S,SO2	<30s	+/-2% of Range
as O2	<15s	
as NO2,CL,NH3	<50s	

Standard Ranges

Туре	Ranges Available State When Ordering	
CO2 Infra Red	0-5000ppm 0-2% 0-5%	
Oxygen Electrochemical	0-25%	
N2O Infra Red	0-1000ppm	