

# Tocsin-i700 Controller

PRODUCT DATASHEET



## TOCSIN i700 SERIES

Addressable & Analogue Gas Detection System



Addressable technology from International Gas Detectors.

Typical System is 40% Faster to Install with Fewer Connections

Improved Reliability

Improved Connectivity to External systems

Analogue Inputs Allow Re-use Existing Cabling When Updating

ATEX and Safe Area Gas Detector

Up to 64 Detectors/Devices

Built in Battery Backup

Up to 8 Analogue 2 or 3 Wire 4-20mA Inputs



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



Local Annunciator Displays With Options for Slam Switches, Sounders Detectors and I/O



Addressable Gas Detectors. Flammables, Toxic's, Oxygen

4 Core Cable



Addressable ATEX Gas Detectors. Flammables, Toxic's, Oxygen



www.respoproducts.com

info@respoproducts.com

1800 180 73776

# Tocsin-i700 Controller



## PRODUCT DATASHEET

### Standard Specifications

Power	110/230V AC 50/60Hz 24V DC Option
Construction	ABS
Display	2 x 16 LCD
User	Jog Wheel Interface
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 <i>Additional Digital Inputs/Relay Outputs Can Be Added To Highways if Required</i>
Other I/O	Key-switch Input Remote Reset Facility Remote Inhibit Facility
Inputs	1 off Addressable Highway up to 32 Detectors/Devices 1 off RS485 Ports Modbus or Addressable Highway up to 32 Detectors/Devices 8 off 4-20mA Analogue Inputs  Max Detector/Device Count 64
Temperature	-5 to 40 Deg C Full Specification. To 55 Deg C De-Rate PSU by 15%
Humidity	0-95% RH Non-Condensing
Sealing	IP54
Mounting	Wall Mount
Weight	1.75Kg

### Standard Features

3 Alarms Levels Programmable Per Detector

Alarms Configurable as Rising, Rising Latching, Falling, Falling Latching

Full Interface Capability With Two RS485 Interfaces For Modbus

Full Modbus Memory Map, Read from All Connected Devices to External BMS/SCADA/DCS Systems.

Set up From Control Panel or PC Interface

Internal Battery Backup with Duration Options

Battery Backup status Indicated with LED Status

1 Second Update For All Connected Devices

Continuous Error Checking

Calibration Possible At Sensor or From Controller

Events Logging For up to 1000 Events Time and Date Stamped

Events and setup stored in Battery Backed Memory

Extensive Service and Calibration Features

Meets the Requirements of EN 60079 Series of Standards For Gas Detection.



# Tocsin-i700 Controller

PRODUCT DATASHEET



## EC Declaration of Conformity

Issuers name and address:

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



Declares that the product listed as:

**TOCSIN i700**

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.

**2004/108/EC**      **EMC Directive**  
**2006/95/EC**      **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.

EN 61779-1:2000      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.  
*Excluding requirements for SIL*

EN 61000-6-2: 2005      EMC Generic standards. Immunity for industrial environments  
EN 61000-6-4: 2007      EMC Generic standards. Emission standard for industrial environments  
EN 61000-3-2/A2:2009      EMC Limits. Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)  
EN 61000-3-3: 2008      EMC Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase

Technical File Reference      I700-TF9

Product Markings      **TOCSIN i700**      *SI*-serial number

Oliver IGD Limited Operate and Independently assessed ATEX/IECEX QAN.

Oliver IGD Limited operate an independently assessed ISO9001:2008 Quality Management System.

Testing Agency:

TUV - SUD  
Octagon House  
Concorde Way  
PO 15 5RL  
Fareham

Quality Assurance Certificate Number  
**ExVeritas 16PQAN0014**

Quality Management Certificate Number  
**FS 646773**

Quality Assurance Notification Number:  
**2585**

ExVeritas,  
Units 16-18,  
Abenbury Way,  
Wrexham Industrial Estate,  
Wrexham, UK, LL13 9UZ

BSI Assurance UK LTD,  
Chiswick High Road,  
London  
W4 4AL  
UK



Mehr Sicherheit.  
Mehr Wert.

TUV Certificates and reports can be checked on-line at [https://www.tuev-sued.de/industry\\_and\\_consumer\\_products/certificates](https://www.tuev-sued.de/industry_and_consumer_products/certificates)

Issued on:      20th Feb 2016

At Oliver IGD Limited, Stockport, SK2 6TS, United Kingdom

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:      20th Feb 2016

Declaration Ref: i700-DEC-4



[www.respoproducts.com](http://www.respoproducts.com)

[info@respoproducts.com](mailto:info@respoproducts.com)

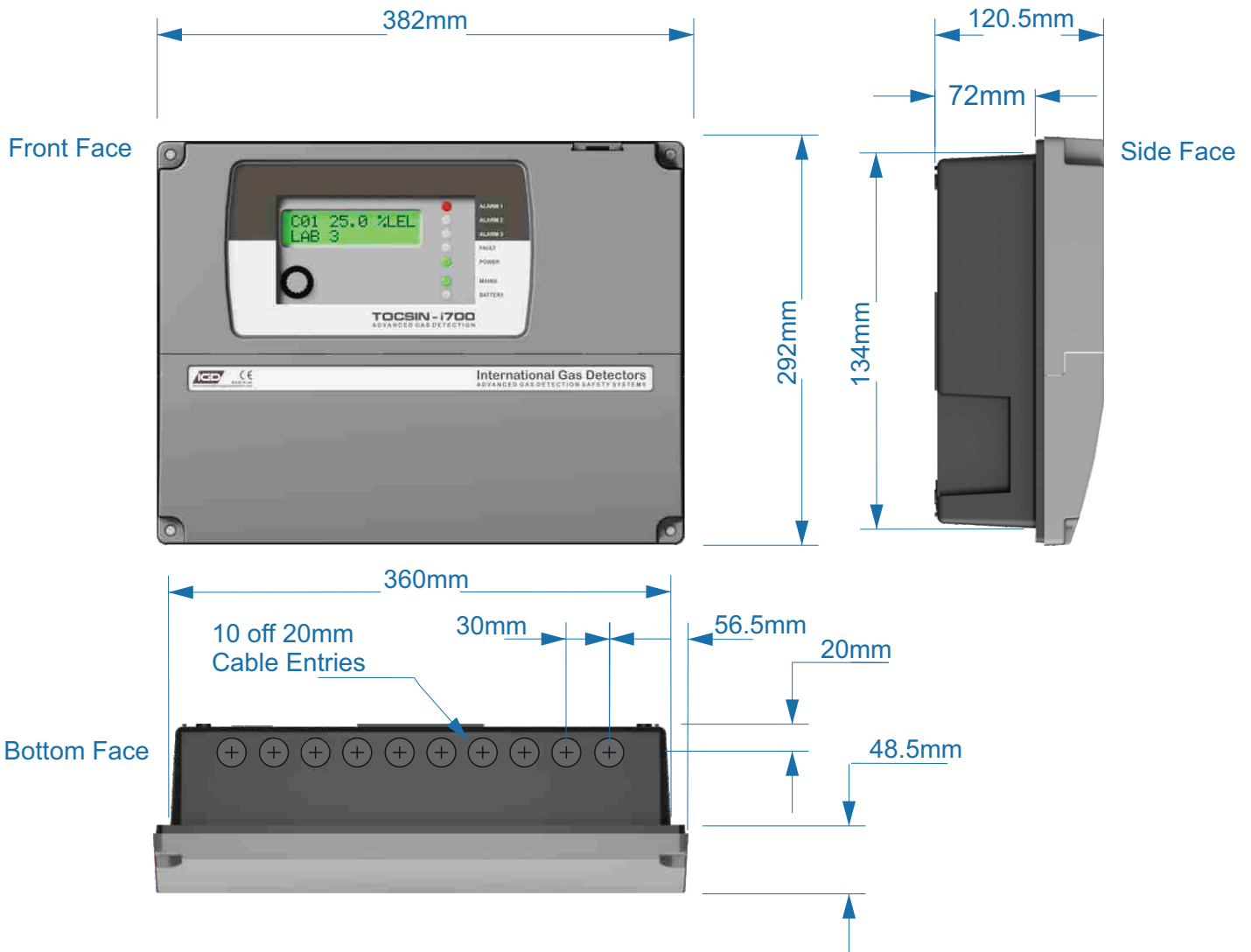
**1800 180 73776**

# Tocsin-i700 Controller

PRODUCT DATASHEET



## TOCSIN i700 PHYSICAL



## Installation Cables

Supported Installation Cables 4 Core 0.75mmSQ, 1.0mmSQ, 1.5mmSQ or 2.5mmSQ See IGD Cable System Calculator

Typically SWA, MICC, FP200, SY, CY, H03VVH2-F Mains Cable Unscreened or Similar



[www.respoproducts.com](http://www.respoproducts.com)

[info@respoproducts.com](mailto:info@respoproducts.com)

**1800 180 73776**

# Tocsin-i700 Controller

PRODUCT DATASHEET



## Order Codes

Part Number	Description
5111201	24V DC Control Panel No Internal PSU Standard Features as Listed
5110901	110/230V AC Control Panel 150W PSU Standard Features as Listed 1.2AH Battery Backup Fitted
5111301	110/230V AC Control Panel 150W PSU Standard Features as Listed 2.4AH Battery Backup



TOCSIN i700 Series Controller



TOC-30 Series Annunciator  
Options With:  
Display, Relay Output, Digital or  
Analogue Input, Flammable Gas Detector



TOC-30 Series Detectors  
Flammable Gases, Toxic Gases  
Oxygen



TOCSIN 102 Series Detectors  
Flammable Gases, Toxic Gases  
Oxygen For ATEX Applications



[www.respoproducts.com](http://www.respoproducts.com)

[info@respoproducts.com](mailto:info@respoproducts.com)

**1800 180 73776**