PRODUCT DATA SHEET

www.internationalgasdetectors.com



Control Systems

Transmitters

CH4

Sensors

Accessories

T10-CH4-23R2W

TOC-10 Series Pre-Wired Gas Detector For Methane

TOC-10 Series gas detectors where designed by our clients after their in-field experiences using conventional domestic gas detectors. Our clients wanted IGD's reputation for quality and reliability in industrial markets but in a detector built for a domestic environment. Building on the deficiencies our clients encountered, TOC-10 sets the standard for this class of gas detector. TOC-10 finds applications in domestic gas safety but

also in marine applications, commercial kitchens, schools, colleges and many more. All models have their own internal alarm sounders and clear visual alarm LED's. Models are then available depending on power source and required output interfaces. This model is fitted with a 3M mains lead allowing you to plug and go straight out of the box.

Coud audible

Pre-Wired Plug and Go.

Front mounted detector has unique splash guard and dust filter

IP Rated seals fitted between the front and rear housing

UK Design and Manufacture

Can be surface mounted using external mounting feet Possible to first fit during building work



Sensor housing is sealed from the electronics housing blocking flammable gas

Standard 2 Gang Fixing Allowing Flush Mounting Using Standard Patress During Building

20mm Cable Entry Knockouts Centred to Allow Easy Drilling For Smaller Entry Holes



All Models have a 'link' function.
Once linked if one TOC-10 goes into alarm then all linked units go into alarm









Triton House Crosby Street Stockport SK2 6TS England 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 6TS England**

Declares that the product listed as:

TOC-10-CH4-23R2V

Flammable point gas detector for use in 'safe' non-zoned areas only, stand alone operation.

Is 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**

And that the standards and/or technical specifications referenced below have been applied or considered.

EN 50194-1:2009 - Electrical apparatus for the detection of combustible gases in domestic premises. Test Methods and

performance requirements.

EN 50270:2015 - Electromagnetic compatibility. Electrical apparatus for the detection and measurement of combustible

gases, toxic gases or Oxygen.

EN 60335-1:2002 - Household and similar electrical appliances. Safety. General Requirements

EN 60529 - Ingress Protection Rating

- EMC Generic standards. Immunity for industrial environments EN 61000-6-2: 2005

- EMC Generic standards. Emission standard for industrial environments EN 61000-6-4: 2007

EN 61000-3-2/A2:2009 - EMC Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

- EMC Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply EN 61000-3-3: 2008

systems, for equipment with rated current ≤ 16 A per phase

Technical File - T10-TF9 Technical construction File

Product Markings CE TOC-10-CH4-23R2W S/-serial number

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

Quality Assurance Certificate Number

ExVeritas 16PQAN0014

Quality Assurance Notification Number:

2585 ExVeritas. Units 16-18.

Abenbury Way, Wrexham Industrial Estate. Wrexham, UK, LL13 9UZ

Signature:

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

FS 646773

Quality Management Certificate Number

Octagon House Concorde Way PO 15 5RL

TUV - SUD Fareham



Chiswick High Road, London

W4 4AL UK

TUV Certificates and reports can be checked on-line at https://www.tuev-sued.de/industry and consumer products/certificates

BSI Assurance UK LTD,

10 Feb 2016 At Oliver IGD Limited, Stockport, SK2 6TS, United Kingdom Issued on:

Name Andrew J Collier M.I.O.D

Position: Managing Director Date: 10 Feb 2016 Declaration Ref: TOC-10-DEC-2





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Declaration of Conformity in accordance with EN ISO/IEC 17050-1:2010





FS646773



Control Systems

Transmitters

Sensors

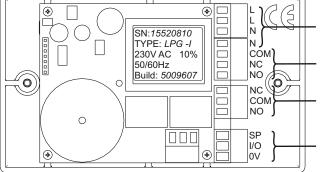
Accessories

Not Required Installation by a Qualified Person. The Following Interfaces are

Also Included

Installation requirements

Terminal Functions



Power Supply With Auxiliary Output Terminals

Alarm Level 1 Relay Terminals Active at Nominally 10% LEL

Alarm Level 2 Relay Terminals Active at Nominally 25% LEL

Data interconnect between Toc-10 units for linked operation

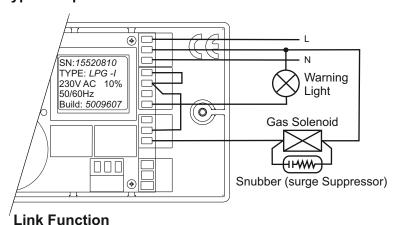
! Warning!

This unit is supplied pre-wired with a 3M mains lead. The additional interfaces listed here may required installation by a competent person. The unit is supplied precalibrated but should be checked regularly, at least monthly using the test feature. Clean only with a damp cloth do not use any cleaning products

K,

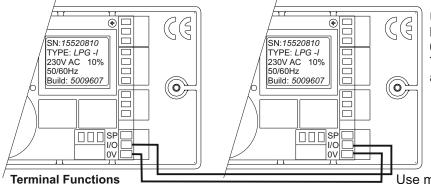
Do no tamper with this equipment to do so may risk electric shock or incorrect operation

Typical Operation



Example shows a Toc-10 © Wired to a gas supply solenoid valve and warning light. The warning light is active in this example when the first alarm level is reached (10%) and the gas solenoid is de-activated when the second alarm level is reached (25%). Note in this example a surge suppressor is fitted to the gas solenoid to extend the life of the relay. For DC solenoids a diode could be fitted. Any such installation must comply with the national regulations in force in the country EN1775 refers

Up to 8 Toc-10 © units can be linked together using the I/O and 0V terminals. When linked the Toc-10 © units have common alarm and common reset function.



Triton House

Crosby Street

Stockport

SK2 6TS

England

Terminal Functions Use minimum 0.75mmSQ Cable Other Models Available

LPG Models

T10-LPG-12RP Marine 12V DC Version with 2 Alarm Relays
T10-LPG-23 Basic LPG Version No Relay Outputs
T10-LPG-23R Single Relay Version
T10-LPG-23R2W Fitted With 3M UK Mains Lead and 2 Alarm Relays

Methane (Natural Gas) Models

T10-CH4-23
Basic CH4 Version No Relay Outputs
T10-CH4-23R
Single Relay Version
T10-CH4-23RP
Full Version With 2 Alarm Relays
T10-CH4-23R2W Fitted With 2M UK Mains Lead and 2 Alarm Relays





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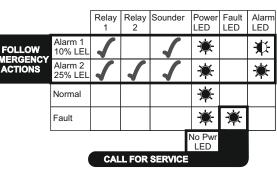
Control Systems

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Alarm Indications



Physical Details





Supplied Fitted With UK3 Pin Plug and

3M of Cable

Note that the power LED will flash during warm up for 1 minute.

Standard Specifications

Supply Voltage 230V AC 50/60Hz Pre-Wired

Uk 3 Pin Plug Socket
Control Relay 2 Relay Changeover Contacts

4 A @ 230V AC

Up to 6 Units Interlinked For

Network Operation

Protection Category IP5

Insulation
Installation
Environment of Application
Operating Temperature

Operating Temperature
Operating Humidity
Types of Gas Detected

Alarm Level Sensor Warm up Time

Interfacing

Reference Standards

Plug Lock Tested to:

IP55

Class II
Wall Mounting Twin Gang Patress Box Residential/Light Commercial

0 - 55 Deg C

0-90% RH Non Condensing Methane (Natural Gas) (options available for LPG)

Warning 10%, Alarm 20% LEL

Typically 1 Minute

LVD EN 60335-1 EMC EN 50270

Gas Alarms EN 50194

Ingress Protection EN 60529 BSI tested to BSI1363

DO NOT REMOVE INTROJUT THE PERMISSION OF MANAGEMENT IN THE PER

20mm ENTRIES TOP/BOTTOM

AND BOTH SIDE

Pre-Wired TOC-10 models are supplied with plug-locks to prevent unintended removal from the mains supply. Tamper-proof stickers are also provided to cover the switch slot after installation. This does not require an

electrician to install. Plug Lock aids compliance in schools to O.F.S.T.E.D rule 6.9

General Information

The TOC-10 © is pre-calibrated for its indicated target gas, usually LPG or Methane. The TOC-10 © will respond to any flammable gas to a greater or lesser degree. The following list indicates typical materials that may be commonly present which the unit may respond to in operation:

Aerosol Propellants (Butane)
Paint Solvents (VOC's)
Hot Cooking Oils
Nail Varnish
Solvent Based Adhesives (VOC's)

Some commonly occurring substances may cause long term detector damage, typically:

Silicones (furniture polishes) Hair sprays (Silicones, VOC's etc) Chlorinated Cleaning Agents





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