

# Tocsin-10

## PRODUCT DATASHEET



**UK Design and Manufacture**

## T10-LPG-23R TOC-10 Series Gas Detector For LPG

TOC-10 Series gas detectors were 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 environments 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. A pre-wired version is also available allowing you to plug and go straight out of the box.

Front mounted detector has unique splash guard and dust filter

IP Rated seals fitted between the front and rear housing

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

Clear Visual Alarms

Sensor housing is sealed from the electronics housing blocking flammable gas

Loud audible Alarms

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



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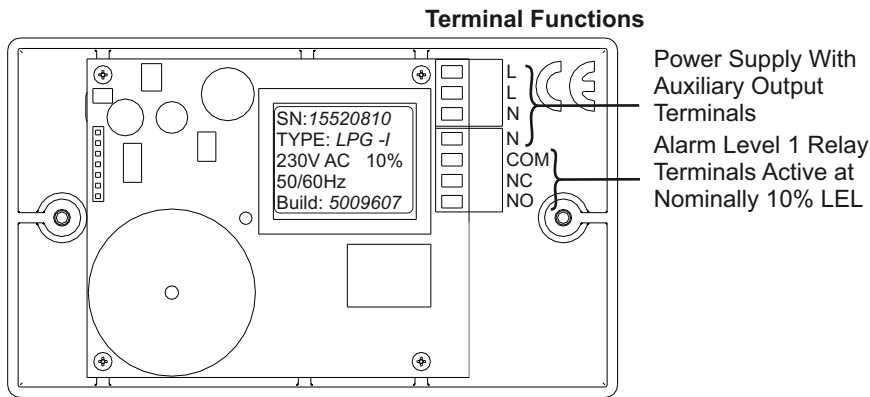
# 1800 180 73776

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### Installation requirements



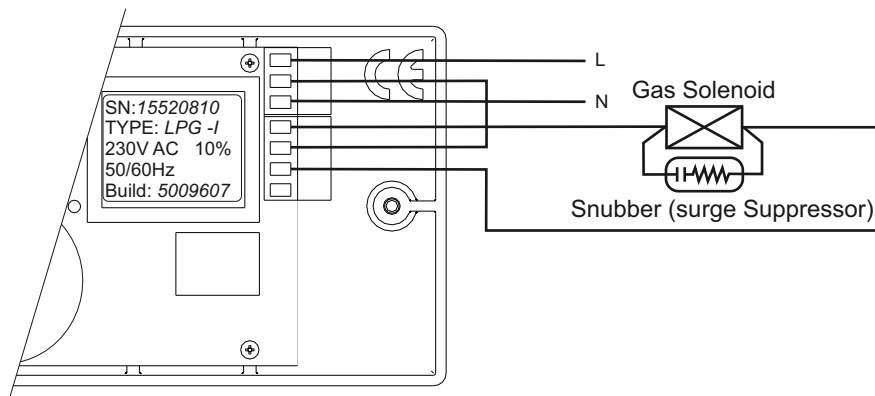
#### ! Warning !

Installation of this device to the mains power supply should only be made by a competent person. The unit is supplied pre-calibrated but should be checked regularly, at least monthly using the test feature. Clean only with a damp cloth do not use any cleaning products

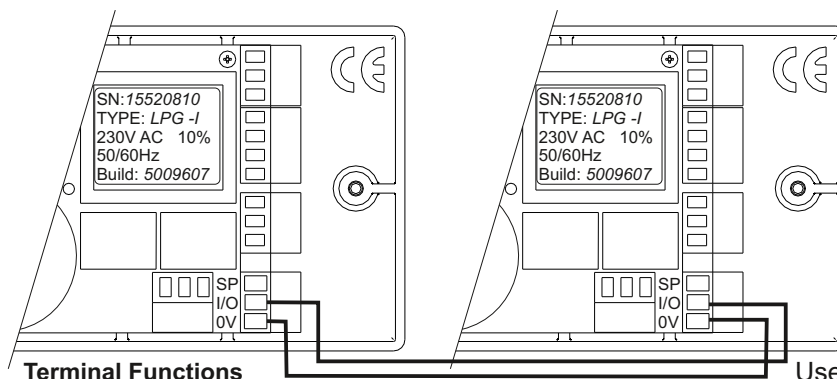


Do not tamper with this equipment to do so may risk electric shock or incorrect operation

### Typical Operation



### Link Function



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.

Use minimum 0.75mm<sup>2</sup> 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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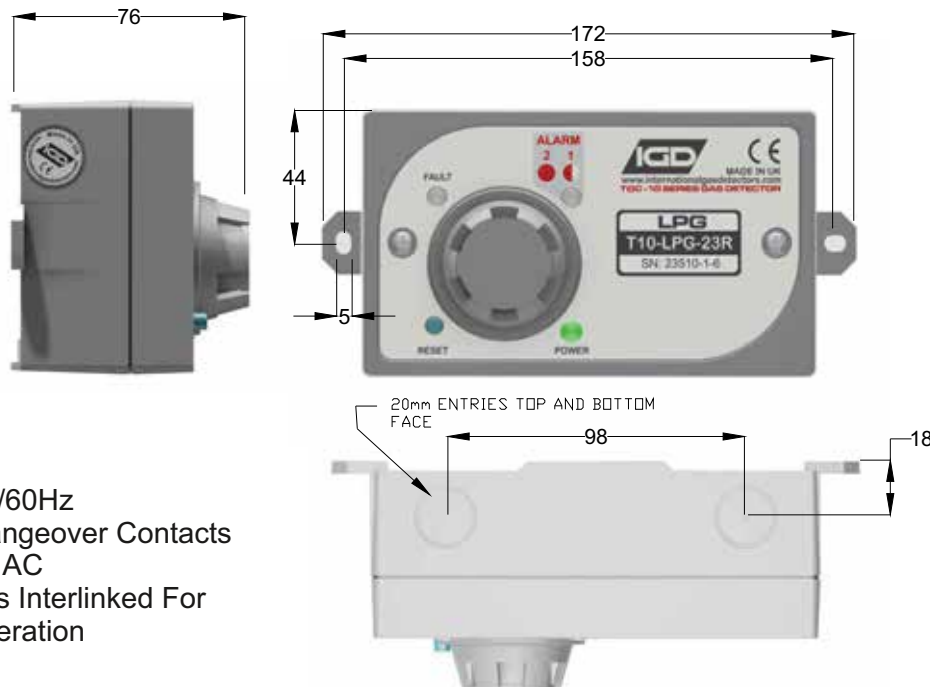
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### Physical Details



### Standard Specifications

|                            |  |
|----------------------------|--|
| Supply Voltage             | 230V AC 50/60Hz  |
| Control Relay              | 1 Relay Changeover Contacts<br>4 A @ 230V AC   |
| Interfacing                | Up to 6 Units Interlinked For<br>Network Operation                                   |
| Protection Category        | IP42   |
| Insulation                 | Class II   |
| Installation               | Wall Mounting Twin Gang Patress Box  |
| Environment of Application | Residential/Light Commercial   |
| Operating Temperature      | 0 - 55 Deg C   |
| Operating Humidity         | 0-90% RH Non Condensing  |
| Types of Gas Detected      | LPG, Butane, Propane (standard)<br>Methane (option T10-CH4-23R)                      |
| Alarm Level                | Warning 10%, Alarm 20% LEL   |
| Sensor Warm up Time        | Typically 1 Minute   |
| Reference Standards        | LVD EN 60335-1<br>EMC EN 50270<br>Gas Alarms EN 50194<br>Ingress Protection EN 60529 |

### Alarm Indications

|                                | Alarm Level 1<br>relay | Sounder | Power<br>LED | Fault<br>LED | Alarm<br>LED |
|--------------------------------|------------------------|---------|--------------|--------------|--------------|
| FOLLOW<br>EMERGENCY<br>ACTIONS | Alarm 1<br>~10% LEL    | ✓       | ☀            |              | ☀            |
|                                | Alarm 2<br>~25% LEL    | ✓       | ☀            |              | ☀            |
|                                | Normal                 |         | ☀            |              |              |
|                                | Fault                  |         | ☀            | ☀            |              |

No Power  
LED

CALL FOR SERVICE

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

### 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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