

**GDS****Fixed Gas Detection Unit****GDS 100**

**Fixed Gas Monitor  
Single Sensor  
Wall or Panel Mount  
Two Alarm Outputs  
4~20mA Outputs  
Flammable, Oxygen and Toxic Gases**

**APPLICATION**

A fixed point alarm unit that meets the requirements for economic and reliable monitoring of gas levels in a wide range of environments. These range from commercial premises through to heavy industrial applications often requiring hazardous area sensing.

Typical monitoring locations are: - public buildings, boiler plant rooms, swimming pools, water treatment works, H&V control systems, manufacturing and process plants.

**OPERATION**

The GDS 100 will operate any GDS gas sensor covering the ranges: - % Vol, L.E.L. or ppm depending upon the type of sensor selected. The sensor may be mounted internally or remotely.

Two adjustable alarm stages are available and may be set to operate on a rising or (for oxygen monitoring) falling gas level. Triggering of the alarms is indicated by red LED's and the operation of an internal sounder with corresponding change-over of alarm relays.

The internal sounder may be cancelled by operating the reset push pad, however visual indicators and relays cannot be reset until the gas hazard has cleared.

For interfacing with computers, recorders, data loggers and variable drives etc, outputs are available to provide 1~5V or 4~20mA for each channel.

**TECHNICAL DATA**

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| <b>Power Supply</b>      | 115/230V AC 50/60Hz or 24V DC,<br>The two voltages may be utilised simultaneously typically with a stand-by battery system  |
| <b>Power Consumption</b> | 4 watts in full alarm condition   |
| <b>Indicators</b>        | Power - Green LED<br>Alarms Lo-Hi Red LED's<br>Fault Amber LED<br>Digital Display 3.5 Digit<br>Switch on delay power indicator flashing - 45 secs<br>Test Lo-Hi LED's flashing intermittent sounder<br>Alarm relay inhibit - Fault LED on   |
| <b>Outputs</b>           | Low, High & Fault alarm relays - SPCO normally de-energised, with normally energised option<br>All contacts rated 5A - 230V AC<br>4~20mA / 1~5V DC  |
| <b>Audible Alarms</b>    | Low, High & Fault Alarms  |
| <b>Alarm Settings</b>    | Digital setting (adjustable between zero and full scale)  |
| <b>Measuring Range</b>   | Combustible (% LEL)<br>Toxic (ppm)<br>Oxygen Deficiency (% Vol)   |
| <b>Sensor Inputs</b>     | 3 - wire bridge type pellistor pair<br>2/3 wire 4~20mA detector electrochemical or Infra Red  |
| <b>Sensor Cable</b>      | 3 Core 1.5mm <sup>2</sup> screened 1.5Km  |
| <b>Miscellaneous</b>     | Alarm relay inhibit during calibration<br>Sounder Inhibit<br>System function test switch<br>Dimensions L.200mm H.120mm D.58mm<br>Weight 0.8Kg<br>Protection IP65<br>Operating temperature -10 to +65 deg.C<br>Storage temperature -10 to +65 deg.C<br>Humidity:- 0 to 95% RH<br>Field Terminals - screw type 2.5mm<br>Cable entry: - top, bottom, sides and rear<br>24V DC 200mA output |

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|----------------------------|---------------------|-------------------|------------------------|--------------------|
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