

**GDS****Fixed Gas Detection Unit****GDS 200**

**Fixed Gas monitor**  
**Up to 20 sensors with auxiliary power pack**  
**Single cables for multiple sensors**  
**Off the shelf system**

**APPLICATION**

The GDS 200 gas leak detection system features a main control unit connected to remote sensors via a single 3 or 4 core cable. The control unit is of an advanced design using the latest technology and provides a high integrity system whilst enabling a significant cost saving over conventional gas alarm systems. Standard sensors for use in commercial and light industrial application such as laboratories, workshops, garages, car parks, boiler houses etc. are available for monitoring carbon monoxide, flammable or refrigerant gases. Each sensor incorporates a status L.E.D. and alarm sounder, Sensor types may be mixed and up to 10 in number for the standard control unit, or up to 20 when used with an optional auxiliary power pack. Alternatively sensors may be used separately without a control unit providing they are powered by a 12 or 24 volt DC supply. Sensors are also available in certified flameproof enclosures for hazardous or petrochemical installations.

**OPERATION**

On power up, the green power indicator will flash for 3 minutes, indicating that the sensors are stabilising, during this time period all alarm functions are held in the off condition. After the stabilisation period, any sensor detecting gas will provide a local visual (Red L.E.D.) and audible alarm, at the same time transmitting a signal to the control unit where a pre alarm is indicated by an intermittent audible alarm and the toxic or flammable red alarm L.E.D. flashing with the pre alarm relay changing state. Should the gas surrounding the sensor clear within 45 seconds the system will return to the normal operating condition. However, if the gas remains for longer than 45 seconds, full alarm condition will occur and be indicated by the red alarm L.E.D. and sounder going constant as well as the full alarm relay activating. The audible alarm may be silenced at any time but full alarm indication will be latched until the gas has cleared after which the system may be reset by pressing the reset pad.

**TECHNICAL DATA**

<b>Control Unit</b>	115V AC 230V AC 24V DC $\pm$ 15%
	the two voltages may be used at the same time (stand-by battery)
<b>Frequency</b>	50/60Hz
<b>Consumption</b>	3 watts
<b>Detector Head</b>	Standard 1 to 10 (Auxiliary power supply 1 - 20) Toxic and/or flammable sensors
<b>Indicators</b>	Power (Green L.E.D.) Pre alarm (Flashing red alarm L.E.D. and intermittent sounder) non latching Full alarm (Consistent red alarm L.E.D. and sounder) - latching Fault alarm (Amber L.E.D. and sounder) - Fault monitoring of sensor, sensor cable & control unit - non latching
<b>Sensor Cable</b>	3 core 1mm <sup>2</sup> flam. or toxic sensor (single gas type) 4 core 1mm <sup>2</sup> flam. and toxic sensor (combination gas type) Cable length - 200 mtr max
<b>Alarm relays</b>	Relay driver selection - any combination - user selectable Pre alarm toxic S.P.C.O. (R1) - Pre-set Pre alarm flammable S.P.C.O. (R2) Pre-set Full alarm D.P.C.O. (R3) - Pre-set Full alarm selectable Relays are de-energised in non alarm state Normally energised relays are by software adjustment All contacts rated 5A@230V AC
<b>Relay Inhibit:</b>	Front panel access      Ambient Temp:
<b>Protection:</b>	IP65      Operation: -5 to +45°C
<b>Weight:</b>	920 grams      Storage: +10 to +60°C
<b>Dimensions</b>	Length 200mm Height 120mm Depth 58mm
<b>SENSOR</b>	
<b>Power Supply</b>	12V DC to 30v DC
<b>Consumption</b>	1.2 W
<b>Indicators</b>	Power (Green L.E.D.) Gas alarm (Sounder + Green L.E.D. turns Red) - non latching
<b>F200</b>	Flammable Gas Alarm Threshold F200 1% CH <sub>4</sub> Adjustable
<b>T200</b>	Carbon Monoxide Alarm Threshold T200 50ppm Adjustable
<b>R200</b>	Alarm Threshold R200 Adjustable Refrigerant Gas
<b>Ambient Temperature</b>	Operation: -5 to 45°C Storage: +10 to +60°C
<b>Protection</b>	IP42
<b>Weight</b>	115 grams
<b>Dimensions</b>	Length 83mm Height 83mm Depth 36mm

Vic/Tas/SA 03 9993 7500	NSW 02 9663 2322	NZ 09 414 5080	QLD/NT 07 3890 8533	WA 08 9248 8999
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