

GDS**Fixed Gas Detection Unit****GDS
2000**

**Fixed Gas Monitor
Modular System
Unlimited number of sensors**

APPLICATION

Designed for use in industrial environments offering the highest integrity system available, each alarm module operating independently without the need for a common controller or reporting facility.

The format of the cards is 19" Eurocard rack 3U high, 160mm long and 30mm wide resulting in a maximum number of 14 modules per 19" tray. However, the 19" motherboard may be reduced in size to accommodate any size Euro enclosure. Alternatively, any number of 19" racks may be utilised providing for an unlimited number of alarm cards.

OPERATION

The GDS 2000 alarm card is used to operate any of the GDS Gas or Fire sensors covering the ranges 0-100% volume or L.E.L for flammable gases, % volume for oxygen deficiency/enrichment and ppm levels for toxic gases. The fire card is single zoned with full monitoring of field wiring and sensor condition. Each alarm module offers 2 adjustable alarm trip points plus fault and over-range indication and corresponding individual relays having volt free contacts. The standard display is a digital L.C.D. meter with the option of an analogue meter. For interfacing with computers, recorders, data loggers and variable speed drives etc. Outputs are available to provide 1 ~ 5v or 4 ~ 20mA as required.

Common alarm functions/relays are available via an optional facilities card. This may be inserted at any point within the system or used remotely as a common indication panel having reset functions. A stand-by battery charger card is available providing a wide range of stand-by periods where an uninterrupted supply is required.

TECHNICAL DATA	
Detector Module:-	1 to 14 per 19" instrument tray.
Measurements	Combustible Gas:- % L.E.L - % Vol. Toxic Gas:- p.p.m - % Vol Oxygen:- % Vol Fire:-
Power Supply Options	230V AC 115V AC 22V AC 24V DC \pm 17% 4W per module - max.
Indicators	Power (Green L.E.D.) Switch on delay - Power indicator flashing Green/Amber Alarm relay Inhibit - Power indicator constant Red Alarms Lo & Hi (Red L.E.D.) Over-range (Red L.E.D.) Alarm 3 Fault (Amber L.E.D.)
Sensor Inputs	3 wire bridge type detector:- pellistor or semi conductor 2/3 wire 4/ 20mA detector:- electro-chemical or infra red
Sensor Cable	Screened 1.5mm ² Bridge - 1Km 4/ 20mA - 2.5Km
Relays	Low Alarm N/D Normally latched - optional unlatched High Alarm N/D Normally latched - optional unlatched Fault N/E All contacts rated 5A@230V AC One set of change over contacts per relay
Audible Alarm	Per module 85dBs @ 1 meter
Environmental	Operating temperature:- -10 to 50°C Humidity:- 0 to 90% RH
Miscellaneous	Alarm relay, inhibit switch per module (utilised during service work) Remote reset - accept (optional)
Facilities Card	(optional)
Indicators	As per module
Audible Alarm	As per module
Relays	Low Alarm N/D optional N/E
Options user selectable	Normally latched - optional unlatched High Alarm N/D - optional N/E Normally latched - optional unlatched Optional time delay before relay changeover (O>10mins) Over-range Alarm N/D Fault Alarm N/E Mains fail N/E One set of change over contacts per relay All contacts rated 5A@230V AC

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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