

GDS**Fixed Gas Detection Unit****GDS 404**

**1~4 Channel Fixed Gas Monitoring System
Flammable, Oxygen & Toxic Gases
Selectable Alarm Relays
Plug-in Channel Cards with auto detect
Standard 4 ~ 20mA O/p on each sensor
channel**

APPLICATION

The GDS 404 has been designed with features that provide an effective response to the detection of gas hazards in a wide range of environments, from commercial premises through to heavy industrial applications that may require hazardous area sensing.

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

OPERATION

The unit can accommodate up to 4 alarm channels, each of which will operate any type of GDS sensors, covering the ranges: - % vol., L.E.L. and ppm, according to the type of sensor selected.

Each gas channel has two user adjustable alarm levels which may be set to operate for rising or falling gas levels (oxygen level monitoring), triggering of an alarm is indicated by red L.E.D's and operation of an internal sounder with corresponding change over of alarm relays. The internal audible alarm may be cancelled by operating the reset/accept push button but visual alarms and relays cannot be cancelled until the gas or fire hazard has cleared.

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

TECHNICAL DATA

Detector Channels	1 to 4:- Combustible, Toxic and Oxygen in any combination
Measurements	Combustible Gas:- % L.E.L. - % Vol Toxic:- p.p.m. - % Vol Oxygen:- % Vol Depletion/Enrichment Any 4~20mA input signal
Power Supply	230/110AC or 24V DC
Indicators	Power - Green L.E.D. Mains Fail - Power indicator change from green to amber Alarms - Red L.E.D.'s Fault - Amber L.E.D. Digital Display - 3.5 Digit - gas readout Sensor channel selection indicator - Amber L.E.D. System Test - Alarm L.E.D.'s flashing Alarm Relay Inhibit - Fault L.E.D. on
Sensor Inputs	Bridge type 3 wire mV input 4~20mA electrochemical / infrared
Sensor Cable	3 core 1.5mm ² screened <1.5Km
Outputs	High Alarm Relay Common DPCO Normally energised / de-energised, latched or unlatched Low Alarm Relay - Common DPCO Normally energised / de-energised, latched or unlatched Fault Alarm Relay Common SPCO Normally energised / de-energised, latched or unlatched Channel Relays - 1 per channel high or low alarm selectable SPCO Normally energised / de-energised, latched or unlatched General Alarm Relay - resettable during alarm All contacts rated 5A@230V AC Analogue 4 to 20mA output per channel
Audible Alarm	Permanent mute option - Low, High & Fault Alarms
Alarm Settings	Digital Setting (fully adjustable between zero and full scale)
Miscellaneous	Enclosure IP52 - (IP65 Optional) Operating temperature:- -10 to +50°C Relative Humidity:- 0~90% 310W x 265H x 75D Weight 3.6kg Optional standby battery Field terminals - push on - 2.5mm

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