

GDS 404

1-4 CHANNEL GAS ALARM

- Versatile System Configuration
- Flammable, Oxygen, Refrigerant and Toxic Gases
- 1 to 4 sensors
- Plug in sensor channel cards
- Two alarm stages
- Selectable alarm relays
- Analogue 4-20mA output
- Delay to alarm option



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

Sensor points

1 ~ 4

Type

Infra-red, Electrochemical, Catalytic, Semiconductor, PID

Measurements

Combustible Gas - L.E.L., % vol, ppm

Toxic Gas - ppm, % vol

Oxygen - % vol Depletion/Enrichment

Any 4~20mA input signal

Power Supply

230/115v AC or 24v DC and specials

Power Consumption

12 watts - full alarm

Indicators

- Power - Green L.E.D
- Mains Fail - power indicator change green to amber
- Alarms - Red L.E.D.s
- Fault - Amber L.E.D
- Digital Display - 3 1/2 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

Outputs

- Analogue output 4~20mA into 200 ohms max load

Common Relays - user selectable

- High alarm RL2 - D.P.C.O. normally energised or de-energised - factory set de-energised
- Latched or unlatched - factory set latched
- Low alarm RL1 - D.P.C.O. normally energised or de-energised - factory set de-energised
- Latched or unlatched - factory set latched
- Fault alarm RL3 - S.P.C.O. normally energised or de-energised - factory set de-energised
- Latched or unlatched - factory set latched
- Global Alarm Relay RL4 - S.P.C.O. changes on all alarms and is resettable at all times.

Channel Relays

- High and low alarm S.P.C.O. normally energised or de-energised
- - factory set de-energised
- Latched or unlatched - factory set latched
- All contacts rated 3A/230v AC

Audible Alarm

- 68dBs @1m
- Permanent mute option
- Lo, Hi, Fault alarms

Alarm Settings

- Digital Setting (fully adjustable between zero and fullscale)
- Delay to alarm T1 - 10 seconds, T2 - 30 seconds, T1 + T2 - 10 minutes

Sensor Inputs

- Bridge type 3 wire mV input
- 4~20mA

Sensor Cable

- 3 core 1.5mm screened < 1.5km

Sensors

XDIwin (Exd)



XDI (Exd)



30J (safe area)



Sensor Accessories

- Collector Cone & Universal Fitting
- Universal fitting (Test Gas Applicator/Spray Deflector)
- Water Shield - stainless steel
- Flow Block - nylatron
- Flow Block - stainless steel
- Duct Mount Kit
- Detector Head Weather Shield
- F1 Sensor Thermal Jacket

Miscellaneous

- EMC approvals EN50270 Marine EN60945
- Enclosure - cable entry - bottom/rear
- Operating temperature -10 to +50°C
- Relative Humidity 0 - 90%
- Protection IP52 - option IP65 overhousing
- Dimensions 315W x 265H x 95D mm
- Weight 3.6kg
- Optional backup battery
- System/lamp test
- Remote Accept/Reset
- Alarm isolate during service - inhibit

