

# GDS101

## SINGLE POINT GAS ALARM

- DATA LOGGING
- THREE ALARM STAGES + RELAYS
- 4~20MA ANALOGUE OUTPUT
- SENSOR INPUT SELECT 4~20mA/mV BRIDGE
- WEATHER PROOF
- BACK LIT ALPHA NUMERIC FULL STATUS DISPLAY
- FRONT PANEL ACCESS TO SET UP AND MAINTENANCE OF PARAMETERS
- INTERNAL OR REMOTE SENSOR OPTIONS
- ASPIRATED SENSOR OPTION



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

The GDS101 may be utilised as a standalone unit or as an addressable sensor forming part of the GDS Combi CANbus addressable network system and therefore offering the features of our most advanced system.

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

### Measuring Range

Combustible Gas - LEL, % Vol, ppm  
Toxic Gas - ppm  
Oxygen - % vol - Depletion or Enrichment  
Any 4~20mA source input signal

### Indicators

Two line alpha numeric back lit display  
Power - Green LED.  
Alarms 1, 2, 3 - Red LEDs  
Fault - Amber LED  
Alarms inhibit - Amber LED

### Audible Alarm

1, 2, 3 and Fault Alarms - mutable  
85dB @ 10cm

### Power Supply

24v nominal 15 to 30vDC  
Option - 230/115v AC 50/60 Hz  
The two voltages may be utilised simultaneously - standby supply

### Power Consumption

4 watts - full alarm

### Outputs

1, 2, 3 and fault alarm relays -SPCO normally de-energised - energised option, latched or unlatched  
All contacts rated 3A - 230v AC

4-20mA

CANbus

Logging Intervals - variable time

Roll over/stop

Storage - 2,880 readings

Requires RS232 lead

PC or laptop (dedicated)

Hyperterminal - downloaded from GDS website

### Alarm Settings

Digital setting (fully adjustable between zero and full scale)  
Delay to alarm

### Sensor Inputs (jumper selectable)

Bridge type 3 wire detector mv (Catalytic)  
4-20mA (electrochemical / infrared / catalytic / PID / semiconductor)

### Sensor Cable

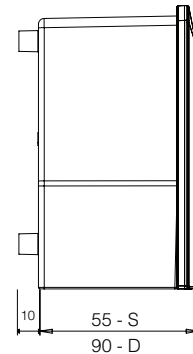
3 core 1.5mm<sup>2</sup> screened 1.5km

### Miscellaneous

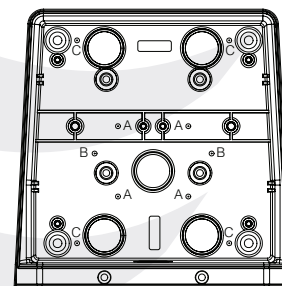
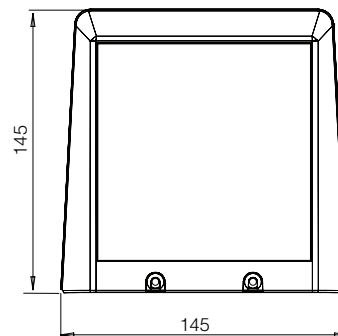
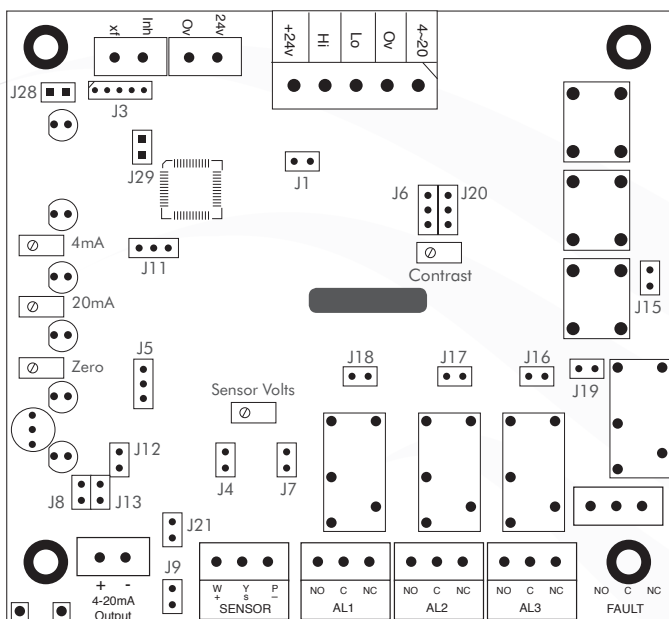
Operating temperature -15 to +50°C  
Storage temperature -5 to 55°C  
Alarm relay inhibit during calibration  
Sounder Inhibit  
System function test  
Dimensions L 145mm H 145mm D 65mm 24vDC version (S)  
D 100mm AC version (D)

Weight 0.8 kg  
Protection IP64  
Field Terminals - screw type 2.5mm  
Cable entry - top, bottom, sides, rear

### Internal Aspirated Sensor Unit



### Control Unit PCB



Cover Lid Removed

This document is not contractual and the equipment specification may be modified at any time without prior notice.

