

Guardian 1

Single Point Gas Alarm

- Data logging
- Three alarm stages + relays
- 4~20mA analogue output
- Sensor input select 4~20mA/mV
- 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 Guardian 1 may be utilised as a standalone unit or as an addressable sensor forming part of the Guardian *Plus* 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 S4S website

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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)

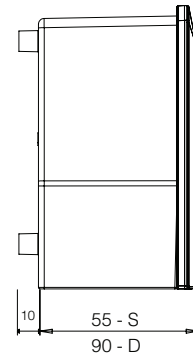
Sensor Cable

3 core 1.5mm² screened 1.5km

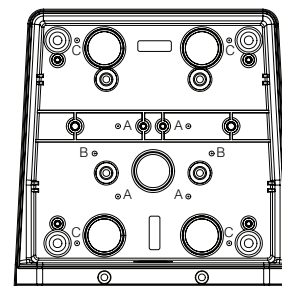
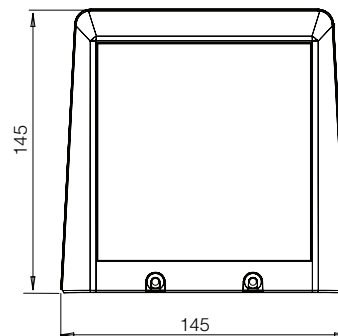
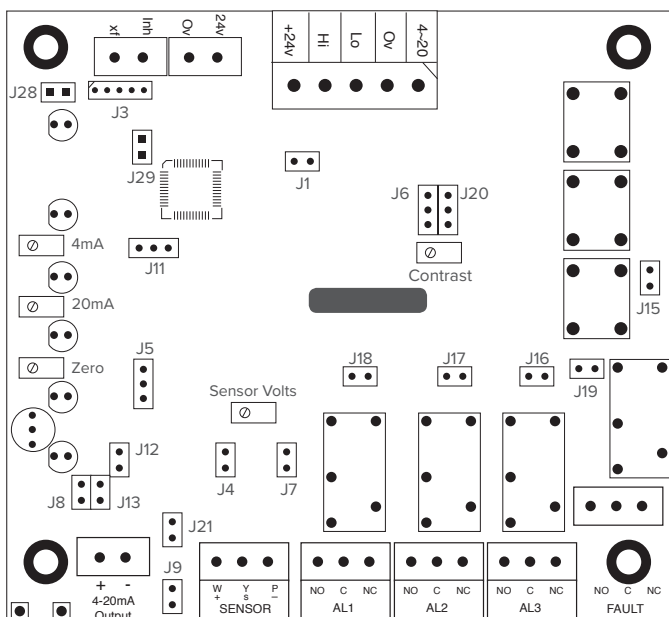
Miscellaneous

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

