S4S GASWARDEN

Multi Channel Gas Alarm System

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Addressable Gas Monitoring System - For use in Boiler Rooms, Gas Meter Rooms and Plant Rooms

System Features:

- 3 core sensor cable network
- Sensors pre-set and tested
- Sensors for all gases
- 1-16 sensors – 4 zones up to 64 sensors (16 per zone) with additional power pack
- User definable screen text
- Three alarm levels (timed ON/OFF option)
- Individual Sensors with relay
- Connect directly to the S4S Guardian® CANbus system
- Designed for ease of installation
- System easily extended
- Off the shelf system
- Interface sensor for any 4~20mA/switch device - option

A fixed multi channel gas alarm unit that meets the requirements for economic and reliable monitoring of gas levels that may require hazardous gas sensing.

The S4S Gaswarden gas leak detection system features remote sensors connected to the main control unit via a 3 core cable network. The control unit is an advanced design using the latest technology and provides a high integrity system whilst offering a significant cost saving over conventional gas alarm systems.

Each gas sensor continuously monitors the atmosphere for any hazardous conditions. On detection of gas the sensor will indicate the gas level status A1, A2, A3 by LED indication and sounder. Information received by the control panel from the sensor is then displayed, indicating the zone, gas type and alarm status. Alarm levels that are exceeded are then able to activate user selectable relays and appropriate control actions.

Control Unit

Power Supply: 115/230 VAC and/or 24VDC +/- 15%
Frequency: 50/60 Hz
Consumption: 3 Watts
Detector Head: 1-16 standard -1 to 64 (4 zones, 16 per zone) -with additional power supply
Indicators: Alarm: Red LED / Sounder - Display text A1/A2/A3
        Fault: Amber LED / Sounder - Display text Flt (Fault)
        Display: As above + 4 line user text
        Sounder: 85dB @ 30cm
Sensor Cable: 3 Core 1mm2 200m Max x 4
Alarm Relays: 4 selectable relays SPCO 3A @ 230VAC
        N/E - N/D - Latched / Unlatched
Each zone A1/A2/A3 or A2/A3 only **or**
Global (all zones) Relay 1 = A1, Relay 2 = A2, Relay 3 = A3, Relay 4 = Fault
Relay Inhibit: Front panel access
Ambient Temperature: Operation -5 to +50C - Storage +5 to +55C
Weight: 920 gms
Protection: IP65
Dimensions: Length 200mm x Height 150mm x Depth 80mm

Sensor

Sensor type: Catalytic (Flammable Gas), Electrochemical (Carbon Monoxide)
Alarm settings:
A1 = 20% lel Flammable Gas | 20 ppm Carbon Monoxide
A2 = 40% lel Flammable Gas | 100 ppm Carbon Monoxide
A3 = 100% lel Flammable Gas | 200 ppm Carbon Monoxide

Alarm Relay: 1 SPCO 3A : 230VAC A1/A2/A3 or A2/A3 only
        N/E - N/D - Latched / Unlatched
Sounder: 85dB @ 10cm
Ambient Temperature: Operation -5 to +50C - Storage +5 to +55C
Weight: 225 gms
Protection: IP65
Dimensions: Length 145mm x Height 145mm x Depth 60mm
Options: Duct sensor probe: Length 27mm Diameter 28mm

Optional Extras:

NOTE: This datasheet is non-contractual
www.sensorsforsafety.co.uk
E: sales@sensorsforsafety.co.uk T: 01423 206360 F: 01423 206370
Sensors for Safety Ltd | Knaresborough Tech Park | Manse Lane | Knaresborough | N.Yorks | HG5 8LF | UK