S4S GUARDIAN® - PLUS

sensorsforsafety.co.uk

1-80 Channel Gas Alarm System

Addressable/Direct Analogue Gas Monitoring System

System Features:

- 1 to 64 addressable sensors
- 1-16 direct 4~20mA sensors 2/3 wire
- 1 8 plug in direct catalytic cards
- Network up to 16 controllers enabling up to 1024 addressable sensors + direct sensors
- Single 4 core sensor network (addressable)
- Parameter set up via pc or front panel
- 3 alarm levels with time to alarm option
- Addressable relay module 4, 8 and 32 way option
- Continuous data logging via pc option (S4S Guardian® - Plus software)
- Automatic safety check diagnostics/system surveillance
- · System management via remote access

Specification Sheet

ref C689



S4S Guardian® - *Plus* has been designed to operate in the full range of environments from commercial premises through to heavy industrial applications which may require hazardous area sensing. Typical monitor locations are - public buildings, car parks, tunnels, breweries, boiler plant rooms, water treatment works, H&V control, manufacturing, process plants, horticulture, hotels, offices.

Operation

Each gas sensor continuously monitors the atmosphere reporting any hazardous conditions to the control unit for display by the alpha numeric screen indicating the reporting sensor, gas type, concentration and alarm status. Alarm levels that are exceeded will automatically activate a variety of signal outputs including analogue/digital data and user selectable relays.

S4S Guardian® - Plus system operates on a 4-core (addressable) or 2/3 core (direct) cable network and has the capacity to monitor up to 64 addressable and 16 direct sensors 8 of which may be converted to accept mV catalytic sensors. Larger systems offering unlimited sensors can be achieved using multiple Guardian Plus units housed in a 19" rack based system or a network controller.

S4S Guardian® - *Plus* is supplied ready to use with pre-calibrated gas sensors and provides for additional sensors that can be easily added to any point of the network.

Optional software (S4S Guardian® *Plus* Software) allows full data logging facilities with system management providing real time views showing sensor locations, alarms status and actual gas values.

Sensor points

1-64 addressable – CANbus – and/or 16 direct 4~20mA

Measurements

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

Toxic Gas - ppm, % vol

Oxygen - % vol - Depletion/Enrichment

Refrigerant - ppm

Any 4~20mA transmitter

Indicators - control unit concentration

Dot matrix LCD 4 line 40 character - indicating sensor location, gas type, (rising or falling alarms), alarm status, system fault, sensor line fault, sensor fault, inhibit, real time clock, event memory

Red LED - global alarm, Amber LED - global fault, Amber LED-inhibit

Outputs

8 user selectable zone/voting – with NE/ND option and

delay to de-energise

Relay contacts - 2 D.P.C.O / 6 S.P.C.O. rated

@ 5A-230v AC

Factory set 1 common low alarm D.P.C.O or group 1

1 common high alarm D.P.C.O or group 2

1 common overange S.P.C.O or group 3

1 common fault alarm S.P.C.O or group 4

4 user selectable S.P.C.O groups 5 to 8

General alarm relay - resetable S.P.C.O. for sounders etc. Optional - 2×32 relays - first 16 programmable with pattern/event with NE/

ND options and delay to de-energise - 48 are single event

Optional - remote addressable 4 way relay unit

RS232 data log - event log Modbus - RS485 x2

Guardian *Plus* Soft: full data logging /management tool - option. Individual sensor logging - intervals 1-60 mins storage readings 2880

NOTE: This datasheet is non-contractual