GAS 306

Sequential Gas Sampling System
1 - 20 Way

Application

The GAS 306 system is designed to monitor gas levels from a number of sample-points, targeted at situations where the positioning of conventional gas sensors may not be practical. This may be due to equipment security, cable routing, access for detector head installation/maintenance, harsh environment or a cost effective means of monitoring designated hazardous areas, typically - tunnels, marine applications, underground/high level voids, process control, landfill, multi storey car parks, brewing, horticulture, superstore multi refridgeration units.

Operation

Gas samples are sequentially extracted for a timed period by a central control unit via fixed sample lines. A high rate sample is taken by the main pump during which a reduced rate sample is passed across the sensor device.
The central unit provides gas level readouts with two alarm trip points per line, providing a range of signal outputs for annunciator and control functions.

Key Features

- 1-20 sample points
- Monitor up to 4 gas types
- No sample line purge delay
- Wide range of sensor types
- 4 line alpha/numeric display
- Selectable sample line sequence
- Display of each sample line location
- Easily installed and maintained
- Full indication of all operations
- Event logging / Modbus / RS232 / RS485
- Line blockage and pump fail monitoring
- Variable sample time for optimum cycle time
- High integrity, comprehensive self check fault monitoring
- Centralised one man calibration offers minimum running costs
- Split system operation – optional
- Remote control panel – optional
- Line blockage, blow back – optional
- Hazardous area operation – optional
- Auto flood cut off – optional
- Enclosure internal gas monitoring with automatic system shutdown – optional
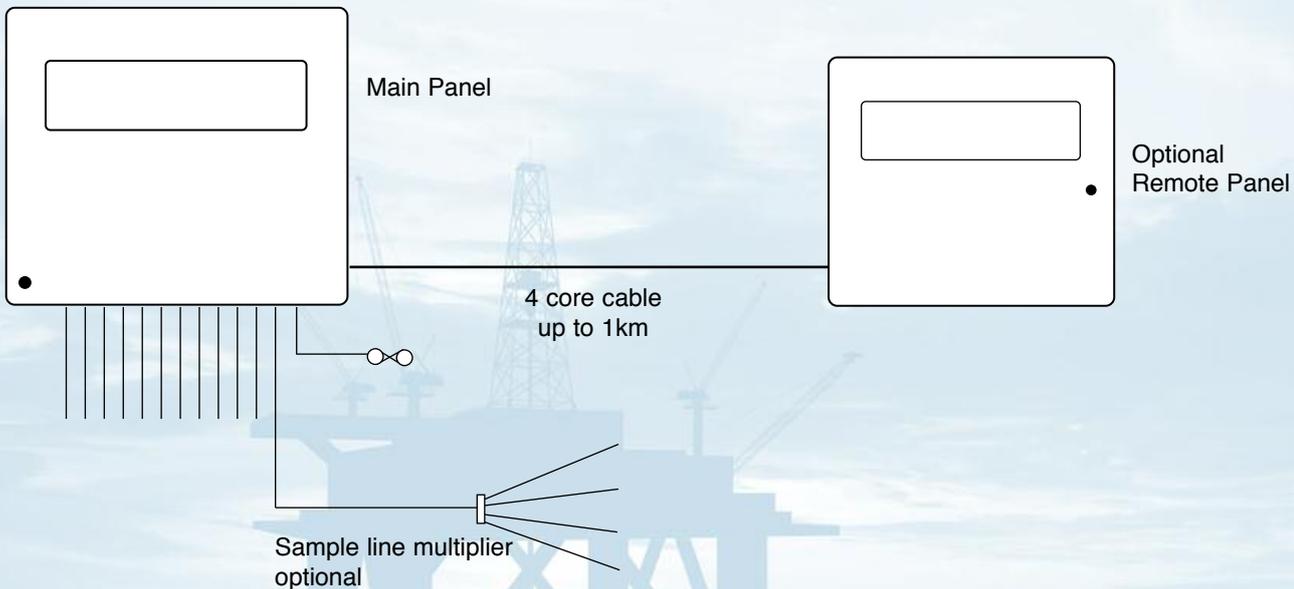- Sample line multiplier - optional

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Technical Data

Sample points	● 1 ~ 20
Sensors	● 2 - standard 1~4 option
Measurements	● Combustible gas - LEL % vol ● Toxic gas – ppm % vol ● Oxygen – % vol ● Depletion/enrichment ● Refrigerant – ppm
Power Supply	● 230/115vAC 50/60Hz 300W max
LED indicators	● System healthy ● Main power ● Standby power ● High gas alarm ● Low gas alarm ● System, flow, sensor fail ● Comms fail ● Skip/hold ● Sampling
Display	● 4 line alpha/numeric indicates all functions and status in text. Sample line locations (user settable)
User interface	● 8 panel mounted push buttons – Main panel and remote panel:- Reset, Scroll, Hold, Dim, Enter, Down, Up, Select ● PC – event log / data log, data to and from system controls

Relay Outputs	● Global Low S.P.C.O. ● Global High S.P.C.O. ● Global Fault S.P.C.O. ● Flow Fail S.P.C.O. ● Power Fail S.P.C.O. ● Cabinet Sensor S.P.C.O. ● 32 programmable relays – option
Communication	● RS232– Data Stream ● Modbus 2 x RS485 ● Can bus – internal
General	● Audible alarm all alarm conditions ● LED/display dimming ● User/Eng password ● LCD backlight ● Event logging ● Sample line size 8mm OD 6mmID ● Nylon, PTFE, Copper, Stainless Steel. Max length 200m specials 300m+ ● Sample vent x 2-10mm ● Tubing entry enclosure base, side option ● Response time 15 to 45 seconds ● Colour - powder coat ash grey BSA01 ● Size 800mmH x 600mmW x 350mmD ● IP 63 ● Wall mount ● Weight 65kg
Standards	● EN60945: 2002 Maritime general requirements ● EN61010: 2001 Electrical Safety - LVD

Main Panel

Optional
Remote Panel

4 core cable
up to 1km

Sample line multiplier
optional

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

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