



GROVELEY DETECTION

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Sequential Sampling System GDS306

The GDS 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 refrigeration 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 2 alarm trip points per line, providing a range of signal outputs for annunciator and control functions.

Features

- 1-20 sample points monitoring up to 4 gas types
- Wide range of sensor types
- Selectable sample line sequence
- Display of each sample line location
- Full indication of all operations
- vent 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



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TECHNICAL DETAILS

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

LED Indicators

- System healthy
- Main power
- Standby power
- High gas alarm
- Low gas alarm
- System, flow, sensor fail
- Comms fail
- Skip/hold
- Sampling

Display

- 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

Communication

- RS232– Data Stream
- Modbus 2 x RS485
- Can bus – internal

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

General

- Audible alarm all alarm conditions
- LED/display dimming
- User/Eng password
- LCD backlight
- Event logging
- Sample line size 6mm OD 4mm ID
- Nylon, PTFE, Copper, Stainless Steel. Max length 100m specials 100m+
- Sample vent x 2-8mm
- Tubing entry enclosure base
- Response time 15 to 45 seconds
- Colour - powder coat ash grey BSA01
- Size 400mm H x 450mm W x 200mm D
- IP 63
- Wall mount

Standards

- EN60945: 2002 Maritime general requirements
- EN61010: 2001
- Electrical Safety - LVD

Options

- Remote control panel
- Line blockage, blow back
- Auto flood cut off
- Enclosure internal gas monitoring with automatic system shutdown
- Sample line multiplier

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