



## **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 re Fridgeration 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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## 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
- Additional 32 optional

## 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
- Maximum length 300m
- Nylon, PTFE, Copper, Stainless Steel
- Sample vent x 2–10mm
- Tubing entry enclosure base, side option
- Response time 15 to 45 seconds
- Colour – powder coat ash grey BSA01
- Size 800mm H x 600mm W x 350mm D
- IP 63
- Wall mount
- Weight 65kg

## Standards

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

