

- 1-48 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*
- Line blockage, blow back – *optional*
- Hazardous area operation – *optional*
- Enclosure internal gas monitoring with automatic system shutdown – *optional*
- Sample line multiplier - *optional*
- Remote control panel – *optional*
- LED/text indicator panel – *optional*
- Auto flood cut off – *optional*



Application

The GDS 305 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 two alarm trip points per line, providing a range of signal outputs for annunciator and control functions.

- Sample points** • 1-48
- Sensors** • 1-4 4~20mA input
- 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
 - 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 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

