

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

