GDS
TECHNOLOGIES LTD

Bio Gas Monitor
GDS 308
Sample System

- **Monitor up to 4 gas types**
- **Wide range of sensor types**
- **4 line alpha/numeric display**
- **Easily installed and maintained**
- **Full indication of all operations**
- **Event logging / Modbus / RS232 / RS485**
- **Line blockage and pump fail monitoring**
- **High integrity, comprehensive self check fault monitoring**
- **Remote control panel –** *optional*
- **Auto flood cut off –** *optional*
- **Auto drain –** *optional*
- **Enclosure internal flammable gas monitoring with automatic system shutdown**

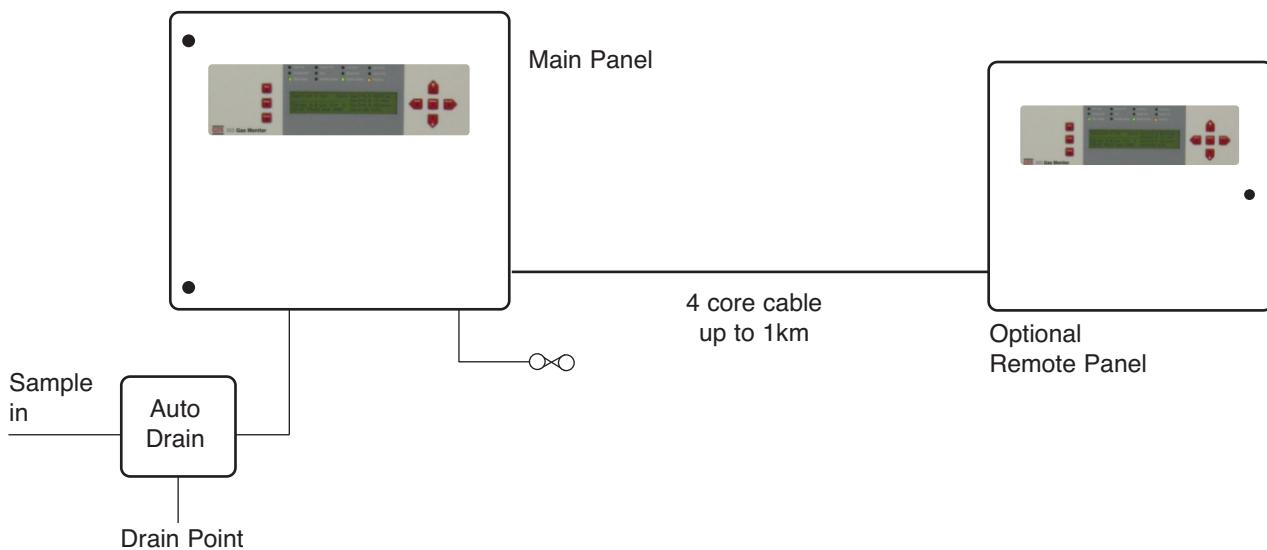## Application

Typical Monitoring CH_4, H_2S, CO_2, O_2

- Biogas Plants
- Landfill gas monitoring
- Anaerobic digestion
- Waste Water Plants
- CHP engine protection and efficiency
- Fuel gas analysis

Operation

The GDS308 is designed to continuously monitor up to four gases by sample extraction along a single sample line.

The central unit provides gas level readouts with two alarm stages and a range of signal and data outputs for logging annonciator and contral functions.

Sensors	• 1~4
Measurements	• Combustible gas % vol
	• Toxic gas – ppm
	• Oxygen – % vol
Power Supply	• 230/115vAC 50/60Hz
LED indicators	• System healthy
	• Mains power
	• Standby power
	• High gas alarm
	• Low gas alarm
	• System, flow, sensor fail
	• Comms fail
	• Sampling
Display	• 4 line alpha/numeric indicates all functions and status in text. Sample line location (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 Alarm S.P.C.O.
	• Global High Alarm S.P.C.O.
	• Global Fault Alarm S.P.C.O.
	• Flow Fail S.P.C.O.
	• Power Fail S.P.C.O.
	• Cabinet Sensor S.P.C.O.
Communication	• RS232– Data Stream
	• Modbus 2 x RS485
	• Can bus – internal
	• Optional 4~20mA analogue outputs
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, 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
	• Weight 20kg
	• IP 63 Optional IP66 overhousing
	• Wall mount - four brackets
Standards	• EN60945: 2002 Maritime general requirements
	• EN61010: 2001 Electrical Safety - LVD

Main Panel

4 core cable up to 1km

Optional Remote Panel

Sample in

Auto Drain

Drain Point