



GDS

Fixed Gas Detection Unit



**GAS NET
Addressable Gas
Monitoring System**

- Fully user programmable operation
- Real time continuous display of operating conditions
- Push button programming
- System surveillance
- One man calibration utilising data storage
- Sensors easily removed or added
- Low cost installation

APPLICATION

The Gas Net is designed to control sensors in all environments, from light commercial premises through to industrial and petrochemical sites requiring hazardous area sensing.

Typical monitored locations are - public buildings, car parks, tunnels, breweries, boiler plant rooms, water treatment works, H & V control, manufacturing, process plants, horticulture, hotels, offices.

OPERATION

The Gas Net system operates on a single 4-core cable network monitoring up to 32 addressable toxic or flammable gas sensors. Each of the 32 sensor address locations may alternatively be used as an outstation (zone) containing up to ten sensors per zone, expanding the total system up to 320 monitored sensors (32 zones) from one controller.

Each sensor monitors the surrounding atmosphere, transferring continuously updated information to the control unit, where the information is then processed and displayed on the 4-line alpha numeric screen, indicating the reporting sensor number, gas type and concentration.

Gas concentrations exceeding the preset alarm levels will automatically activate user selected relays, operational controls and remote alarm functions

TECHNICAL DATA

Alarm Levels	3 adjustable set points
Sensor points	1~32 1~320 using outstation (zone) option
Measurements	Combustible Gas - L.E.L. and % vol. Toxic Gas - ppm. and % vol. Oxygen - % vol. Refrigerant - Alarm Fire - Alarms Water leak - Alarm Temperature / Humidity
Power supply	230/115v AC or 24v DC
Consumption	Control unit 20W Sensor 4W
Indicators	Dot matrix liquid crystal display 4 line - Backlight Power - Green L.E.D. Alarm - Red L.E.D. Fault - Amber L.E.D.
Sensor cable	4-core - 1.5mm ² Screened Maximum distance 1Km
Outputs	16 Relays user selectable. S.P.C.O. Relay 1 pre-set – Common low alarm (1 st alarm stage) Relay 2 pre-set – Common high alarm (2 nd alarm stage) Relay 3 pre-set – Common over-range alarm (3 rd alarm stage) Fault - Common relay 17- S.P.C.O. N/E Mains fail relay - S.P.C.O. N/E All contact rated 5A @ 240v AC Relays 1-16 user selectable normally energised or de-energised, latched or unlatched Relays 1-16 user selectable for any combination of sensor 9 way D type socket for RS232 communication
Internal audible alarms	Alarm / Fault
Environmental	Control Panel - IP65 Operating temperature -10 to + 50°C Humidity 0 ~ 90%RH
Miscellaneous	Enclosure cable entry - bottom, rear, top Alarm relay, Inhibit (fail safe) Option standby power supply Dimensions 296W x 260H x 140D Programming access code protection

Vic/Tas/SA 03 9993 7500	NSW 02 9663 2322	NZ 09 414 5080	QLD/NT 07 3890 8533	WA 08 9248 8999
----------------------------	---------------------	-------------------	------------------------	--------------------

All written data and statements herein are provided in good faith and believed to be reliable and appropriate at the time of drafting this document. However it is given without implied or express guarantee. Potential uses are urged to trial and /or conduct conformity test of the product to deem its suitable in application for a particular end use prior to purchase.