D-Guard™

Digital gas detector. With Sounder & Strobe



Zero stability logic
One man calibration
Non intrusive calibration
Graphical backlit display
No alarm calibration
Simple user options
One board does all
No tool calibration
Isolate feature
Fully programmable processor control

High impact non-static housing

Water resistant IP 66 design

Two year warranty

Our engineers have developed high end electronics and a program that monitors the sensor's outputs and is tailored to and pre-programmed to many different gas types. The program and electronics process the sensor's output trends and calculates accurate and stable readings which are displayed on the permanently backlit graphic display. This is

GasTech Australia has released a new series of gas detectors: The Digital Guard (D-GuardTM). This new style of gas detector uses an advanced processor and program logic, making the choice of a reliable

Mechanic design:

One card to suit all applications is the philosophy. Many of our customers are in remote locations around the world and holding stock for all the different kinds of detectors and ranges that they have on site is expensive and difficult to manage. In the D-GuardTM design this card had to be easily configured for the different gasses, ranges, sensors styles and must have enough program memory to hold the logic for each type of gas. Our engineers were able to achieve all this, with enough resources still avaliable to implement many future features. Each card will be simple to upgrade as needs change.

transmitted back to the processor using the industry standard 4-20mA.

Housing is an IP 66 316 stainless steel filled anti static Nylon, which is UV stable. The design of the housing was designed to meet the most challenging condition encountered in off shore oil rigs.

End user features:

No tool calibration or set up. No screwdrivers, No meters, no special programming tools required to calibrate.

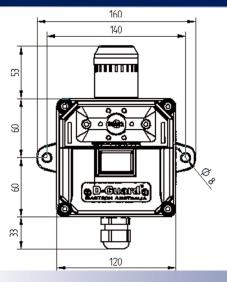
Backlit display. This feature is not available on most loop-powered devices due to high power consumption but it is one of the most requested features, due to operations at night or in dark areas. Our engineers used the latest low power components leaving sufficient resources to implement a back light.

No alarms during calibration. This is probably one of the most useful features of this system. Once you open the calibration door the D-GuardTM locks the output signal at zero gas reading until the calibration process is finished. Our engineers have implemented a fail-safe logic to maintain constant monitoring. There is also an Isolate switch, which will permanently isolate all signals and alarms until the operator reactivates the unit.



D-Guard[™]

Sensor & 4-20mA Transmitter Specifications



Typical range of Gases Detected	
Ammonia (NH ₃) 0 to 100 ppm	in 1 ppm increments
Carbon Monoxide (CO) 0 to 100 ppm	in 1 ppm increments
Chlorine (CL ₂) 0 to 10 ppm	in 0.1 ppm increments
Hydrogen (H ₂) 0 to 100 ppm	in 0.5 ppm increments
Hydrogen Cyanide (HCN) 0 to 50 ppm	in 1 ppm increments
Hydrogen Sulfide (H ₂ S) 0 to 200 ppm	in 1 ppm increments
Hydrogen Cloride (HCL) 0 to 200 ppm	in 1 ppm increments
Nitric Oxide (NO) 0 to 100 ppm	in 1 ppm increments
Nitrogen Dioxide (NO ₂) 0 to 10 ppm	in 0.1 ppm increments
Phosphine (PH ₃) 0 to 1 ppm	in 0.01 ppm increments
Sulfur Dioxide (SO ₂) 0 to 10 ppm	in 0.1 ppm increments
Ethylene Oxide (ETO) 0 to 20 ppm	in 0.1 ppm increments
Ozone (O ₃) 0 to 2 ppm	in 0.01 ppm increments
Oxygen (O ₂) 0 to 25%	in 0.1 %Vol increments

analogue Output Indication Relay Outputs Sounder Strobe

Input Power

Response Time **Operating Temperature**

Humidity Range

Accuracy

Repeatability

Sensor style

Calibration

Drift

Weight

Dimensions Enclosure

IP rating

Warranty

Part Number

Two wire 4-20mA

Graphical Back Light LCD display

3 user adjustable SPDT

Red, Amber Clear, Blue, Green, Yellow

20-30VDC

90% full scale response in less than 40 seconds sensor dependent

-20°C to +50°C

0-95% non condensing

±5% of reading

±1% of reading

Standard 7 series or 4 series plug in sensors

Non intrusive push buttons, no screwdrivers or meters needed

Less than 5% signal loss per year

206mm x 90mm x 55mm

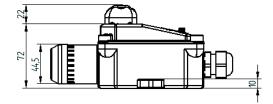
IP66 anti static RFI/EMI UV stable Chemical resistant Nylon

IP65 sounder

2 Years on sensor and electronics for O2, CO & H2S

1 year on all other sensors

65-1012-xxx (xxx is gas type, eg. CO or H2S)



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