C-Guard™

Digital gas detector



GasTech Australia has released the latest series of GasTech's digital gas detectors the C-GuardTM. This new style of gas detector uses an advanced processor and program logic, making the C-GuardTM the most reliability and lowest cost total ownership on the market.

The main application for the C-Guard™ range is commercial uses, Car Park, and HVAC applications. This market requires a detector that is extremely reliable and very quick to calibrate.

Our engineers have developed high end electronics and a program that monitors the sensor's outputs and is tailored to and pre-programmed for many different gas types. The program and electronics process the sensor's output trends and calculates accurate and stable readings. This is transmitted back to the processor using the industry standard 4-20mA.

Lowest cost of ownership 45 seconds to calabarate

Zero stability logic

One man calibration
AS1668.2 Auto test

Non intrusive calibration

No alarm calibration zero gas activation test

Simple user options

One board does all

No tool calibration

Fully programmable processor control

Vandal proof high impact housing

Sensors protection

Water resistant IP 65 design

Two year warranty

Mechanical 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 C-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 available to implement many future features. Each card will be simple to upgrade as needs change.

Housing is an IP 65 strengthened high impact polymer, which is UV stable and is virtually indestructible. The design of the housing was to meet the most challenging condition encountered. Grey coloured to blend in with the walls in car park application.

End user features:

No tool calibration or set up. No screwdrivers, No meters, no special programming tools required to calibrate to comply to AS1668.2

No alarms during calibration:

Once into the calibration mode the C-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.

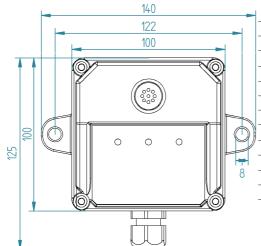
Zero gas activation test:

The C-GuardTM logic has a special activation mode. Once entering this mode the mA output is raised to 12mA for 5 minuets. This allows activation of vent fans or alarms to test the system without wasting expensive test gases. Again bringing down the total ownership costs.



C-Guard™

Sensor & 4-20mA Transmitter Specifications



Typical range of Gases Detected		
Gas	Range	Auto Cal gas
Carbon Monoxide (CO)	0 to 100 ppm	100ppm
Carbon Monoxide (CO)	0 to 150 ppm	100ppm
Carbon Monoxide (CO)	0 to 200 ppm	100ppm
Nitrogen Dioxide (NO ₂)	0 to 10 ppm	5 ppm
Nitrogen Dioxide (NO ₂)	0 to 20 ppm	10 ppm
Hydrogen Sulphide (H ₂ S)	0 to 100 ppm	25 ppm
Hydrogen Cyanide (HCN)	0 to 100 ppm	10 ppm
Sulphur Dioxide (SO ₂)	0 to 10 ppm	5 ppm
Ammonia (NH ₃)	0 to 100 ppm	25 ppm
Others available on request		

analogue Output: Indication:

Input Power:

Response Time: Operating Temperature:

Humidity Range:

Accuracy:

Repeatability: Sensor style:

Calibration:

Drift:

AS1668.2 test:

Weight:

Dimensions: Enclosure:

IP rating:

Warranty:

Part Number:

Two wire 4-20mA

3 LED indication of status

10-30VDC

90% full scale response in less than 30 seconds sensor dependent

-20°C to +50°C

0-95% non condensing

±5% of reading

±1% of reading

4 series plug in sensors

Non intrusive Automatic, no screwdrivers or meters needed

Less than 5% signal loss per year

5 minutes operation at 12mA output

140mm x 56mm x 100mm (125 including cable gland)

High impact UV stable Chemical resistant Nylon

2 Years on sensor and electronics for CO & H2S

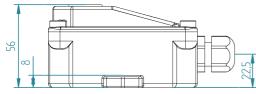
1 year on all other sensors

65-1020-CO-2 65-1020-H2S 65-1020-HCN 65-1020-NH3 65-1020-NO2 65-1020-NO2-1 65-1020-SO2

65-1020-CO

65-1020-CO-1

C-Guard CO detector 0-100pm C-Guard CO detector 0-150pm C-Guard CO detector 0-200pm C-Guard H2S detector 0-100ppm C-Guard HCN detector 0-100ppm C-Guard NH3 detector 0-100ppm C-Guard NO2 detector 0-10ppm C-Guard NO2 detector 0-20ppm C-Guard SO2 detector 0-10ppm



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