

Infrared Gas Monitors: Guardian Range

The Guardian[®] NG for CO₂ or CH₄

Fast, accurate and reliable



True volume % readout over a wide range of pressures (pressure compensated)

Improved screen display provides more information

Easier set up using on-screen menus

Digital Alarm set points

Password protection to prevent accidental or deliberate change of settings

Graphical display of historic readings possible over a user-defined period

Easier transfer of data via on board RS232 I/F

Optional Ethernet I/F

Relay outputs for control of external devices

Worldwide Service & Support

The Guardian range of infrared gas monitors supplied by Edinburgh Sensors offers near-analyser quality continuous sampling, measurement and display of target gas concentrations.

The Guardian range provides high accuracy detection and measurement of either CO₂ or CH₄ gases, where detection level ranges of between 0 – 3000ppm and 0 – 100% by volume are required.

With tens of thousands of our monitors supporting critical processes in industries throughout the world we have an enviable reputation for reliability, accuracy, long-term stability plus low maintenance requirements. This can be attributed to our proprietary infrared sensor technology and over thirty years of sensor design and manufacturing experience.

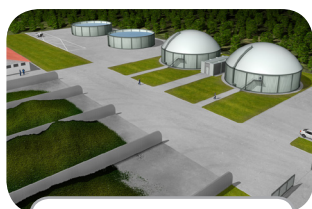
Suitable for a wide variety of applications, these wall-mounted monitors can detect gases from sampling points up to 30 metres away, using the integral sampling system.

Our Guardian instruments are easy to install stand-alone products that require minimum set up.

The Guardian is supplied with LCD display and digital alarm set-point controls, housed in a robust plastic IP54 rated enclosure to prevent the ingress of particulates and water.

When you purchase one of the Guardian range, you automatically access our one to one customer service and technical support right from product purchase through to system integration.

Applications:



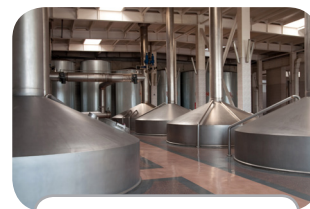
Waste Management



IAQ



Process Control



Brewery

• Biogas • Horticulture • Total Organic Carbon Monitoring • Personal Safety • Brewing • Husbandry •

Technical Specifications

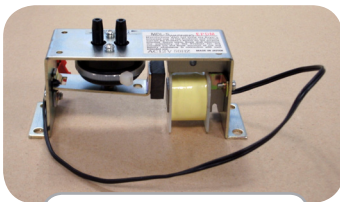
Model*	Gas measurement range	
	CO ₂	CH ₄
Guardian NG	0 – 3000ppm	–
	0 – 1%	–
	0 – 3%	–
	0 – 5%	0 – 5%
	0 – 10%	0 – 10%
	0 – 30%	0 – 30%
	0 – 100%	0 – 100%
Accuracy	±2% of full scale**	
Response time	T ₉₀ = <30 seconds from sample inlet	
Operating temperature	0 – 40°C	
Warm-up time	1 minute (operational) 30 minutes (full specification)	
Humidity	Measurements are unaffected by 0 – 95% relative humidity, non condensing	
Power requirements	90 to 260 VAC 50 to 60 Hz	
Power consumption	13W typical	
Outputs	4 – 20mA / 0 – 20mA analogue output 11V guaranteed drive capability Alarm ranges: zero to full scale. Alarm 1 relay, Alarm 2 relay and Fault relay SPCO (single pole change-over)	
Voltage free contacts rating	8A at 250V AC (resistive load) 8A at 24V DC (resistive load)	
Enclosure rating	IP54	

* Guardian NG instruments are not certifiable for use where risk of fire or explosion exists.
During operation prolonged exposure to high levels of flammable gases may lead to the creation of an explosive mixture within the Guardian plus enclosure.
Additional measures must be taken by the user to prevent this hazard occurring.

** Not including calibration gas tolerance.

Accessories available:

Particle Filter	Integral Seal Included
Pump	Guardian NG 12V Pump



12V AC Pump

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