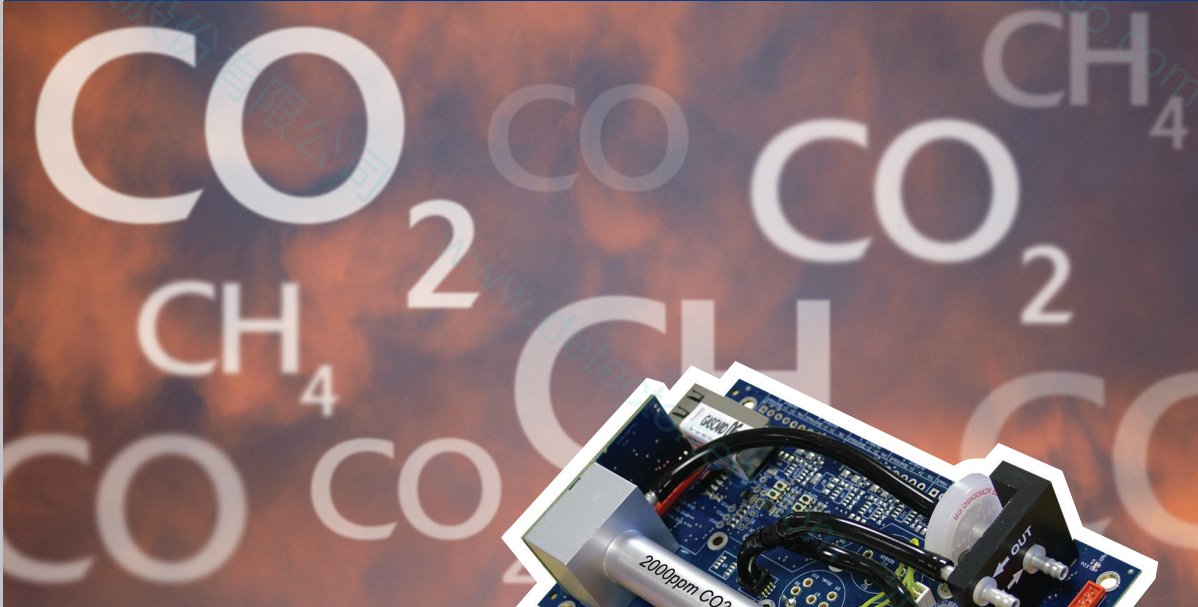


GASCARD NG

FOR CO₂, CO, CH₄



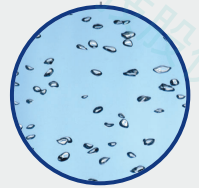
Reliable gas detection at the heart of your system

The Gascard range of OEM infrared gas sensors is now further enhanced with the introduction of the next generation model, the Gascard NG. The Gascard NG is backward compatible with the existing models and is intended as a "plug and play" replacement offering excellent quality detection and measurement of many gases with improved functionality, future extendibility and configuration options.

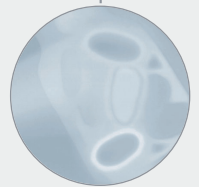
Automatic Temperature and Pressure corrections are included as standard with real-time environmental condition measurements via on-board sensors, thus providing true concentration readings and reliable measurement of target gases, whilst offering easy integration with our present and future clients' systems.

These versatile instruments are based on well established proven technology with enhanced features and options as detailed:

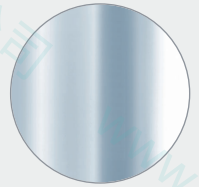
- Backwards compatible with outputs from existing Gascard generations.
- Real-time Temperature and Pressure correction via on-board sensors.
- On-board RS232 communication.
- Field Replaceable IR source.
- Windows data logging software.
- TCP/IP communications protocol option.
- Flexibility to incorporate additional gas detection technologies.



GAS SENSORS



ANALYTICAL INSTRUMENTS



LASERS AND ELECTRO-OPTICS



QUANTUM DIVISION

• TRIED •
• TESTED •
• TRUSTED •



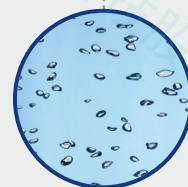


GASCARD NG

FOR CO₂, CO, CH₄

TECHNICAL SPECIFICATIONS

MODEL	Gas	Accuracy ³	Stability	Repeatability @ zero ³	Repeatability @ span ³
Gascard NG (0-500ppm)	CO ₂	+/- 8% of range	+/- 8% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-1000ppm)	CO ₂	+/- 4% of range	+/- 4% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-2000ppm)	CO ₂	+/- 2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-3000ppm)	CO ₂	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-5000ppm)	CO ₂	+/- 2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-1%)	CO ₂	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-3%)	CO ₂	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-5%)	CO ₂	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-10%)	CO ₂	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-30%)	CO ₂	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-100%)	CO ₂	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-3%)	CO ₂ ²	+/- 6% of range	+/- 6% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-10%)	CO ₂ ²	+/- 3% of range	+/- 6% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-30%)	CO ₂ ²	+/- 2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-100%)	CO ₂ ²	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-5%)	CH ₄ ¹	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-10%)	CH ₄ ¹	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-30%)	CH ₄ ¹	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-100%)	CH ₄ ¹	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard NG (0-1000ppm)	N ₂ O	+/- 5% of range	+/- 5% of range over 12 months		
Gascard NG (0-2000ppm)	C ₆ H ₁₄	+/-2% of range	+/- 2% of range over 12 months		
Response Time:	T ₉₀ = 10 seconds (= 3 seconds, 90 seconds or programmable)				
Operating Temperature:	0-45°C				
Operating Pressure:	800-1150mbar				
Zero Drift at Constant Temp:	+/- 2% per year				
Zero Drift due to Ambient Temp:	<+/- 0.03% of range per °C (Standard Head) <+/- 0.1% of range per °C (Plus Head)				
Warm-up Time:	1 minute (operation), 30 minutes (full specification)				
Humidity:	Measurements are unaffected by 0-100% relative humidity, non-condensing				
Output Signal:	4-20mA or 0-20mA (bitswitch selectable) load dependent on supply voltage				
Controls Fitted:	Zero and span adjustment buttons Bitswitch selection of various parameter options				
Bitswitch Parameters:	Analogue (current) output: 0 - 20mA or 4 - 20mA Response time/type: RC filter (programmable time constant) or Adaptive filter				
Expansion Facilities:	LCD display, Remote zero and span buttons, RS232, Ethernet				
Power Requirements:	12V DC (7-30V)				
Power Consumption:	6 Watts				
Weight:	0.3Kg				
Dimensions:	160 x 100 x 40mm				
	¹ Methane is flammable above ~4.5% in Air and Methane/Nitrogen mixtures above 14.3% will form flammable mixtures with air which require special precautions to be taken to prevent explosion. If in doubt consult the appropriate MSDS for methane or methane mixtures.				
	² CO is flammable above ~12.5% in Air and is extremely toxic, see MSDS for Carbon Monoxide.				
	³ At 1013mbar, 25°C and standard filter setting				



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• TRIED •
 • TESTED •
 • TRUSTED •

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