

GASCARD II PLUS

FOR CO₂, CO, CH₄ OR N₂O



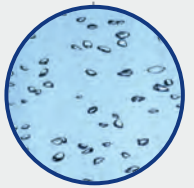
The Gascard ranges of OEM infrared gas sensors offer excellent quality detection and measurement of many gases, using pumped aspiration technology to provide rapid instrument response characteristics.

The Gascard II plus range provides very high accuracy detection and measurement of sub 1% levels of CO₂, CH₄ (Methane) and N₂O gases. In addition, we offer Gascard II Plus sensors to measure CO gas in ranges from 0-3% to 0-30% by volume.

Gascard instruments are designed to provide accurate and reliable measurement of target gases, whilst offering easy integration with our clients' systems.

The proven reputation of these instruments for reliability and accuracy and long-term stability with low maintenance requirements can be attributed to our proprietary dual-wavelength infrared sensor technology and over thirty years of sensor design and manufacturing experience.

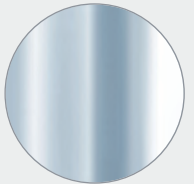
These versatile instruments come complete with a range of useful optional extras and accessories, including 4-digit LCD, DC pumps, diffusion aspiration option and RS232 interface adapters for advanced output signal processing.



GAS SENSORS



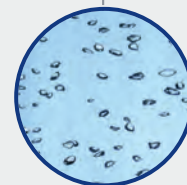
ANALYTICAL INSTRUMENTS



LASERS AND ELECTRO-OPTICS



QUANTUM DIVISION



MODEL	Gas	Accuracy*	Stability	Repeatability @ zero	Repeatability @ span
Gascard II Plus (0-500ppm)	CO ₂	+/- 6% of range	+/- 6% of range over 12 months	+/- 0.3%	+/- 4%
Gascard II Plus (0-1000ppm)	CO ₂	+/- 4% of range	+/- 4% of range over 12 months	+/- 0.3%	+/- 2%
Gascard II Plus (0-2000ppm)	CO ₂	+/- 2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II Plus (0-5000ppm)	CO ₂	+/- 2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II Plus (0-3%)	CO	+/- 6% of range	+/- 6% of range over 12 months	+/- 0.3%	+/- 2.5%
Gascard II Plus (0-10%)	CO	+/- 3% of range	+/- 6% of range over 12 months	+/- 0.3%	+/- 2%
Gascard II Plus (0-30%)	CO	+/- 2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II Plus (0-100%)	CO	+/- 2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II Plus (0-1%)	CH ₄	+/- 6% of range	+/- 6% of range over 12 months	+/- 0.3%	+/- 4%
Gascard II Plus (0-1000ppm)	N ₂ O	+/- 5% of range	+/- 5% of range over 12 months	+/- 0.3%	+/- 3.5%
Response Time:	T ₉₀ = 3 seconds				
Operating Temperature:	0-45°C				
Warm-up Time:	1 minute (initial), 30 minutes (full specification)				
Humidity:	Measurements are unaffected by 0-100% relative humidity, non condensing				
Output Signal:	4-20mA or 0-20mA (linear or non-linear) Optional voltage output				
Controls Fitted:	Zero and span adjustment potentiometers bitswitch selection of various parameter options				
Bitswitch Parameters:	Analogue (current) output: 0 - 20mA or 4 - 20mA Linear/non-linear alarm settings: 2 high, 2 low, or 1 high & 1 low Response time: standard = 10 s; fast = 1 s; slow = 32 s; or programmable Temperature correction: corrected or uncorrected Resolution: rounded last digit, or full resolution				
Expansion Facilities:	2 adjustable alarm setpoints; 2 alarm indicators; 2 alarm relay outputs; 1 fault indicator; 1 fault relay output; LCD; remote zero and span potentiometers				
Options:	4 digit LCD including ribbon cable connector and bezel 10-30 Volt DC diaphragm pump (1 litre per minute) IP65 rated enclosure				
Power Requirements:	24V DC (18-30V)				
Power Consumption:	6 Watts				
Weight:	0.3Kg				
Dimensions:	160 x 100 x 40mm				
	(*stated accuracy excludes calibration gas tolerance of +/- 1%)				

OTHER GASCARD MODELS AVAILABLE:

Gascard II	Measurement of CO ₂ in ranges 0-3000ppm to 0-100%
	Measurement of CO in range 0-100%
	Measurement of CH ₄ in ranges 0-5% to 0-100%
	Measurement of C ₆ H ₁₄ in range 0-2000ppm
	Measurement of hydrocarbons in range 0-2000ppm
Notes :	Gascard II plus instruments are not certified for use where risk of fire or explosion exists. Gascard II plus instruments are specified for use in air or air-like but non-explosive atmosphere.