

# GASCARD II

FOR CO<sub>2</sub>, CO, CH<sub>4</sub>, C<sub>6</sub>H<sub>14</sub> OR OTHER HYDROCARBONS



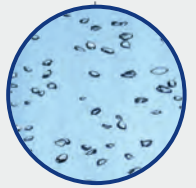
The Gascard range of OEM infrared gas sensors offer excellent quality detection and measurement of many gases, using pumped or diffusion aspiration technology to provide rapid instrument response characteristics.

The Gascard II range provides high accuracy detection and measurement of CO<sub>2</sub>, CH<sub>4</sub> (methane), C<sub>6</sub>H<sub>14</sub> (hexane), and other hydrocarbon gases, with available measurement ranges varying from 0-2000ppm to 0-100% 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, 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.

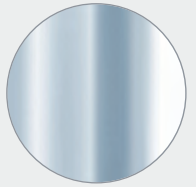
These versatile instruments come complete with a range of useful optional extras and accessories, including 4-digit LCD, DC pumps, diffusion aspiration option and RS232 interface adapters for advanced output signal processing.



GAS SENSORS



ANALYTICAL INSTRUMENTS

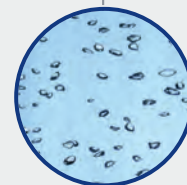


LASERS AND ELECTRO-OPTICS



QUANTUM DIVISION





MODEL	Gas	Accuracy*	Stability	Repeatability @ zero	Repeatability @ span
Gascard II (0-3000ppm)	CO <sub>2</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-1%)	CO <sub>2</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-3%)	CO <sub>2</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-5%)	CO <sub>2</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-10%)	CO <sub>2</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-30%)	CO <sub>2</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-100%)	CO <sub>2</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-100%)	CO	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-5%)	CH <sub>4</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-10%)	CH <sub>4</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-30%)	CH <sub>4</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-100%)	CH <sub>4</sub>	+/-2% of range	+/- 2% of range over 12 months	+/- 0.3%	+/- 1.5%
Gascard II (0-2000ppm)	C <sub>6</sub> H <sub>14</sub>	+/-2% of range	+/- 2% of range over 12 months		
Gascard II (0-2000ppm)	Hydrocarbons	+/-2% of range	+/- 2% of range over 12 months		
Response Time:	T <sub>90</sub> = 10 seconds (= 30 seconds for diffusion model)				
Operating Temperature:	0-45°C				
Warm-up Time:	1 minute (initial), 30 minutes (full specification)				
Humidity:	Measurements are unaffected by 0-99% 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 seconds; fast = 1 second; slow = 32 seconds; 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) Diffusion aspirated versions of 2000ppm, 3000ppm and 5000ppm CO <sub>2</sub> instruments available for use where a high condensation risk exists or where pump noise should be avoided. 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 Plus:	Measurement of CO <sub>2</sub> in ranges from 0-500ppm to 0-5000ppm; Measurement of CO in ranges from 0-3% to 0-30%; Measurement of CH <sub>4</sub> (0-1%) Measurement of N <sub>2</sub> O (0-1000ppm)
Notes :	Gascard II instruments are not certified for use where risk of fire or explosion exists. Gascard II instruments are specified for use in air or air-like but non-explosive atmosphere.

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