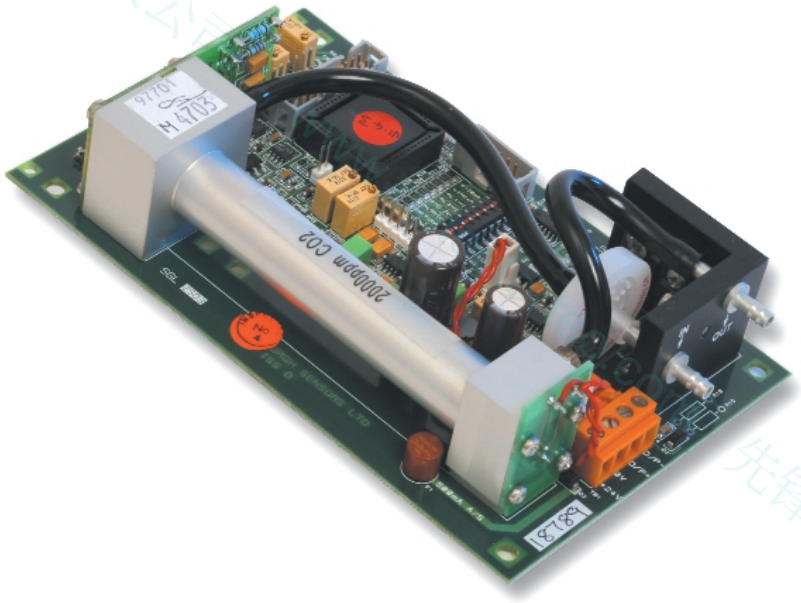
Infrared Gas Sensors
Gascard Range

GASCARD II PLUS

FOR CO_2, CO, CH_4 OR N_2O



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 CO_2, CH_4 (Methane) and N_2O 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

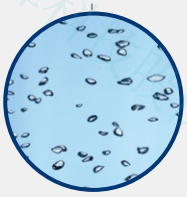
QUANTUM DIVISION

ISO 9002

EDINBURGH INSTRUMENTS

TECHNICAL SPECIFICATIONS

GASCARD II PLUS



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_2O	+/- 5% of range	+/- 5% of range over 12 months	+/- 0.3%	+/- 3.5%

RESPONSE TIME:	T_{90} = 3 seconds/10 seconds (diffusion model)
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 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) IP65 rated enclosure
POWER REQUIREMENTS:	24V DC (18-30V)
POWER CONSUMPTION:	6 Watts
WEIGHT:	0.3Kg
DIMENSIONS:	160 x 100 x 40mm
	(*stated accuracy includes calibration gas tolerance of +/- 1%)

OTHER GASCARD MODELS AVAILABLE:	
Gascard LP:	Measurement of CO_2 (0-100ppm)
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_6H_{14} in range 0-2000ppm Measurement of hydrocarbons in range 0-2000pm

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