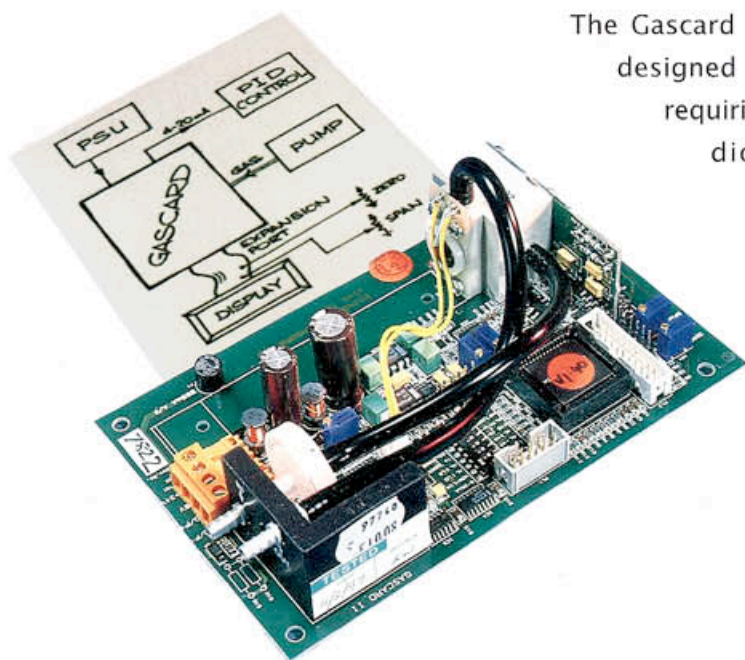


## Gascard™ II

Gascard CO<sub>2</sub>, CO or CH<sub>4</sub>



The Gascard II is a high performance, infra-red gas sensor designed for integrating into a wide range of systems requiring accurate and reliable measurement of carbon dioxide, carbon monoxide or methane gas concentrations. It is a multi-tasking sensor suitable for a great variety of applications, ranging from horticultural to food packaging and storage, landfill, personnel safety and general environmental problems.

### ACCURATE

Proprietary techniques provide true, dual wavelength infra-red sensing with low drift and high accuracy.

### VERSATILE

The sensor head and electronics are mounted on a standard Eurocard for ease of integration. The Gascard II has user bit-switches to control the analogue output, the response time, the alarm function software and the automatic temperature correction feature.

### EXPANDABLE

Many expansion possibilities via a 20 pin connector; simply attach the appropriate circuit for addition of alarm/setpoints, fault output (indicators and relays) and a digital display.

### LONG TERM STABILITY

Compensation for source intensity changes and contamination of the optical elements is automatic.

### WARRANTY

Each Gascard carries a 2-year warranty against defective workmanship and parts, reflecting its inherent reliability.

### QUALITY

All Gascards conform to ISO 9002 standards and are EC approved



certificate No. 96/7913

## Specification

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<b>Measuring Range:</b>	
CO <sub>2</sub>	0-2000ppm, 0-3000ppm, 0-5000ppm 0-1%, 0-3%, 0-10%, 0-30%, 0-100%
CH <sub>4</sub>	0-10%, 0-30%, 0-100%
CO	0-10%,
<b>Accuracy:</b>	± 2% of range
<b>Stability:</b>	± 2% of range over 12 months
<b>Repeatability:</b>	
at zero	± 0.3%
at span	± 1.5%
<b>Response Time:</b>	T <sub>90</sub> = 10s, bitswitch selectable
<b>Operating Temperature:</b>	0-45°C
<b>Zero Drift at Constant Temp.</b>	± 2% per year
<b>Zero Drift due to Variable Temp.</b>	± 0.03% of range per °C
<b>Warm-up Time:</b>	
Operational	1 min
Full Specification	30 mins
<b>Humidity:</b>	unaffected by 0-100% RH, non-condensing
<b>Linear Output:</b>	4-20mA or 0-20mA (500Ω maximum load) 0.006mA resolution (12 bit DAC); optional voltage output
<b>Controls:</b>	bitswitch selection of various options zero and span adjust potentiometers
<b>Bitswitch Control Parameters:</b>	analogue output: linear 4-20mA or 0-20mA linear or non-linear alarm settings: 2 high; 2 low or 1 high, 1 low. response time: standard 10s; fast 1s; slow 32s or programmable. temp. correction: uncorrected or corrected. resolution: rounded last digit or full resolution.
<b>Expansion Facilities:</b>	2 adjustable alarm setpoints, 2 alarm indicators, 2 alarm relay outputs, 1 fault indicator, 1 fault relay output, LCD or LED display, remote zero and span potentiometers
<b>Options:</b>	4 digit LCD display with ribbon cable connector and bezel; 10B to 30B DC diaphragm pump (1 litre/min)  Diffusion: Gascard available for applications where high condensation or pump noise is a problem and this can be supplied with an IP65 enclosure, if desired.
<b>Options:</b>	4 digit LCD display with ribbon cable connector and bezel.
<b>Power Consumption:</b>	6W
<b>Input Voltage Requirement:</b>	24V dc (18-30V)
<b>Weight:</b>	0.3Kg
<b>Dimensions:</b>	160 x 100 x 40mm

*Edinburgh Sensors reserves the right to modify the design or specification without notice.*

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