



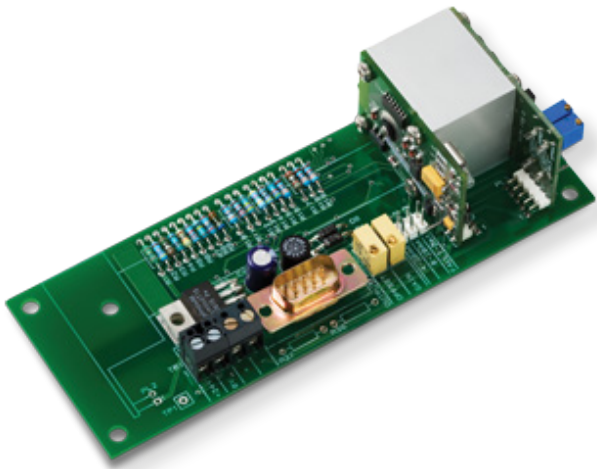
**Edinburgh
Sensors**

Experts in Gas Detection

Infrared gas sensors: Gascheck Range

GASCHECK

For Low Cost CO₂ Detection



**FAST
ACCURATE
RELIABLE**

KEY FEATURES

- Analogue Electronics
- Single Channel
- Long Term Stability
- Robust Construction
- Gold Plated Optical Reflector
- Solid Aluminium

A NEW GENERATION OF GAS SENSORS

The Gascheck Infrared Gas Sensor Range, supplied by Edinburgh Sensors offers high performance, cost effective detection and measurement of CO₂ with a choice of pumped or diffusion aspiration technology to provide accurate and reliable determination of CO₂ gas concentrations.

The Gascheck family includes instruments to measure CO₂ in the ranges 0 – 3000ppm, 0-3% and 0-10% by volume. Other features include the option of indicating CO₂ concentration using linear (4-20mA) or non-linear (0 – 1V) signal output.

Originally developed for measuring CO₂ concentrations in laboratory incubators, the Gascheck range has now also been adopted for a wide range of applications where accurate measurement of CO₂ is required, but with the benefits of low cost and compact design.

Infrared gas sensors: Gascheck Range

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TECHNICAL SPECIFICATIONS

GAS MEASUREMENT RANGE

MODEL	CO₂
Diffusion	0 - 3000ppm
Pumped	0 - 3000ppm 0 - 3 % 0 - 10%
Accuracy	±3% of range*
Zero Stability	±3% of range (over 12 months)
Repeatability @ Zero	±0.5% of range
Repeatability @ Span	±1.5% of range
Response Time	T90 = 30 seconds (pumped versions), T90 = 260 seconds (diffusion versions)
Operating Temp	0 - 45°C
Operating Pressure	Calibrated for 1013mbar
Power Requirements	15V DC (24V DC for linearised versions)
Power Consumption	0.9W
Warm-up time	5 minute (initial) 30 minutes (full specification)
Humidity	Measurements are unaffected by 0-95% relative humidity, non-condensing
Output	0-1V (non-linear), 4 - 20mA (linear version)

*Not including calibration gas tolerance

PRODUCT APPLICATIONS

- Personal Safety
- Process Control
- Compressed Air
- Horticulture
- Fruit Storage
- Many More...



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