

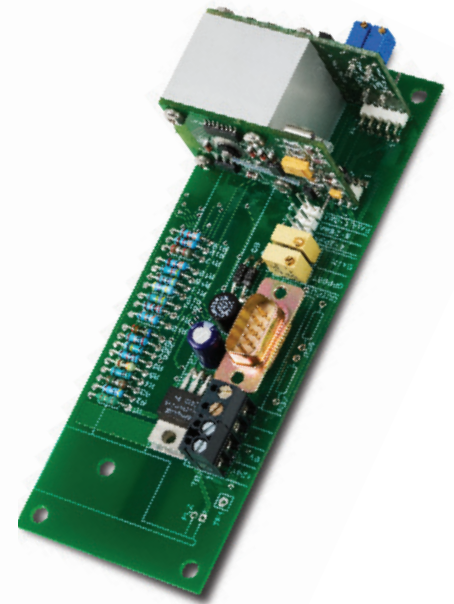
Infrared gas sensors: **GASCHECK RANGE**

# GASCHECK

FOR LOW COST CO<sub>2</sub> DETECTION



EDINBURGH  
SENSORS



## KEY FEATURES

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

## A NEW GENERATION OF GAS SENSORS | FAST, ACCURATE AND RELIABLE

The Gascheck Infrared Gas Sensor Range, supplied by Edinburgh Sensors offers high performance, cost effective detection and measurement of CO<sub>2</sub>, with a choice of pumped or diffusion aspiration technology to provide accurate and reliable determination of CO<sub>2</sub> gas concentrations.

The Gascheck family includes instruments to measure CO<sub>2</sub> in the ranges 0 – 3000ppm, 0-3% and 0-10% by

volume. Other features include the option of indicating CO<sub>2</sub> concentration using linear (4-20mA) or non-linear (0 – 1V) signal output.

Originally developed for measuring CO<sub>2</sub> concentrations in laboratory incubators, the Gascheck range has now also been adopted for a wide range of applications where accurate measurement of CO<sub>2</sub> is required, but with the benefits of low cost and compact design.

# TECHNICAL SPECIFICATIONS

## GAS MEASUREMENT RANGE

MODEL	CO <sub>2</sub>
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 ranges
Repeatability @ Span	±1.5%
Response Time	T <sub>90</sub> = 30 seconds (pumped versions), T <sub>90</sub> = 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

### GASCHECK PRODUCT APPLICATIONS:

- PERSONAL SAFETY
- HORTICULTURE
- PROCESS CONTROL
- FRUIT STORAGE
- COMPRESS AIR
- Many more



#### For more information, contact:

Edinburgh Sensors  
4 Bain Square,  
Kirkton Campus,  
Livingston, EH54 7DQ  
United Kingdom

T: +44 (0)1506 425 300  
F: +44 (0)1506 425 320

E: [sales@edinst.com](mailto:sales@edinst.com)  
W: [www.edinburghsensors.com](http://www.edinburghsensors.com)

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