

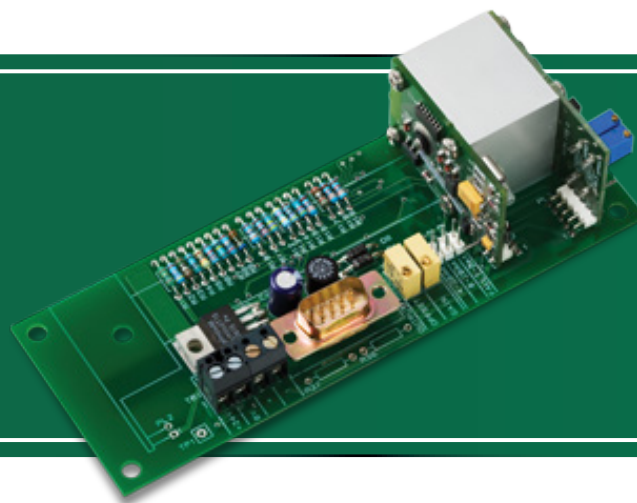
Infrared gas sensors: **Gascheck Range**

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

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.



TECHNICAL SPECIFICATIONS

GAS MEASUREMENT RANGE

MODEL	CO ₂
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
- COMPRESSED AIR
- FRUIT STORAGE
- PROCESS CONTROL
- HORTICULTURE
- MANY MORE...

All specifications are believed to be correct at the time of publication, Edinburgh Sensors does not accept liability for any errors or omissions. Due to our continuous product development all specifications are subject to change without prior notice.

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