### **GASCHECK**

For Low Cost CO<sub>2</sub> 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 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  $CO_2$  in the ranges 0 – 3000ppm, 0-3% and 0-10% by volume. Other features include the option of indicating  $CO_2$  concentration using linear (4-20mA) or non-linear (0 – 1V) signal output.

Originally developed for measuring  $\mathrm{CO}_2$  concentrations in laboratory incubators, the Gascheck range has now also been adopted for a wide range of applications where accurate measurement of  $\mathrm{CO}_2$  is required, but with the benefits of low cost and compact design.

## **GASCHECK**

For Low Cost CO<sub>2</sub> Detection



#### **TECHNICAL SPECIFICATIONS**

GAS MEASUREMENT RANGE

MODEL	CO <sub>2</sub>
Diffusion	0 - 3000ppm
	0 - 3000ppm
Pumped	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)

<sup>\*</sup>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 ourcontinuous product development all specifications are subject to change without prior notice.

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 W: www.edinburghsensors.com