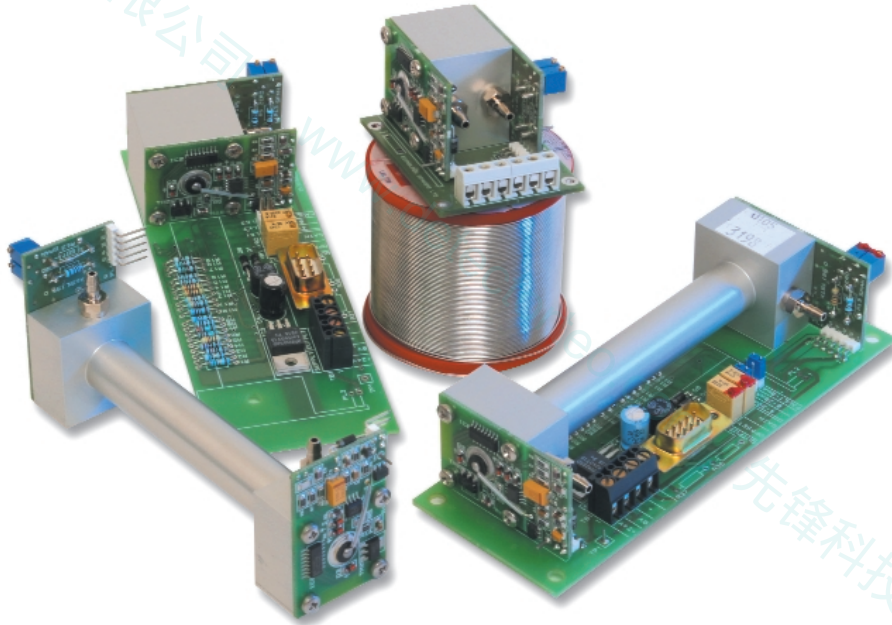


Infrared Gas Sensors  
GasCheck Range

# GASCHECK

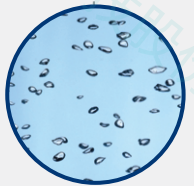
FOR CO<sub>2</sub>



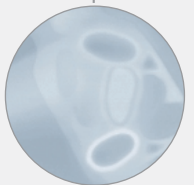
The GasCheck infrared gas sensor range offers high performance detection and measurement of CO<sub>2</sub> at low cost, with a choice of pumped or diffusion aspiration technology to provide accurate and reliable determination of CO<sub>2</sub> gas concentrations.

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.

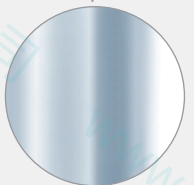
Originally developed for measuring CO<sub>2</sub> concentrations in laboratory incubators, the GasCheck range has now also been adopted for a wide range of applications where accurate measurement of CO<sub>2</sub> is required, but with the benefits of low cost and compact design.



GAS SENSORS



ANALYTICAL INSTRUMENTS



LASERS AND ELECTRO-OPTICS



QUANTUM DIVISION

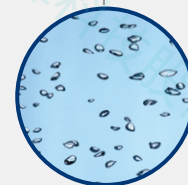


TECHNICAL  
SPECIFICATIONS

# GASCHECK



MODEL	Gas	Accuracy*	Stability	Repeatability @ zero	Repeatability @ span
GasCheck 3000ppm diffusion	CO <sub>2</sub>	+/-3% of range	+/- 5% of range over 12 months	+/- 0.5%	+/- 1.5%
GasCheck 3000ppm pumped	CO <sub>2</sub>	+/-3% of range	+/- 5% of range over 12 months	+/- 0.5%	+/- 1.5%
GasCheck 3% diffusion	CO <sub>2</sub>	+/-3% of range	+/- 5% of range over 12 months	+/- 0.5%	+/- 1.5%
GasCheck 3% pumped	CO <sub>2</sub>	+/-3% of range	+/- 5% of range over 12 months	+/- 0.5%	+/- 1.5%
GasCheck 10% diffusion	CO <sub>2</sub>	+/-3% of range	+/- 5% of range over 12 months	+/- 0.5%	+/- 1.5%
GasCheck 10% pumped	CO <sub>2</sub>	+/-3% of range	+/- 5% of range over 12 months	+/- 0.5%	+/- 1.5%
<b>RESPONSE TIME:</b>	T <sub>90</sub> = 30 seconds (pumped versions), T <sub>90</sub> = 260 seconds (diffusion versions)				
<b>OPERATING TEMPERATURE:</b>	0-4°C				
<b>WARM-UP TIME:</b>	5 minutes (initial), 30 minutes (full specification)				
<b>HUMIDITY:</b>	Measurements are unaffected by 0-99% relative humidity, non-condensing				
<b>POWER REQUIREMENTS:</b>	15V DC (24V DC for linearised versions)				
<b>POWER CONSUMPTION:</b>	0.9 W				
<b>OUTPUT SIGNAL:</b>	0-1V (non-linear), 4-20mA (linear version)				
	Fault or calibration warning indicator (self-referencing versions only)				
	(*stated accuracy includes calibration gas tolerance of +/- 1%)				



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