

Infrared gas sensors: Chillcard NG Range

SPECIAL CHILLCARD NG

For CO & CO₂



FAST ACCURATE RELIABLE

KEY FEATURES

- Modern electronics platform with the increased power and versatility of fast microprocessors
- On-board Barometric Pressure Correction in the range 800mbar - 1150mbar
- Extensive Temperature compensation
- Silicon micro-machined IR source
- Long Term Stability

- Low operating voltage (7V) and wide operating minimum voltage range (7V - 30V)
- True RS232 communications for control and data logging
- Optional on-board LAN support
- Expansion port supporting both simple 4.5 Digit and 128 x 64 pixel Graphic Display Modules

A NEW GENERATION OF GAS SENSORS

The OEM Chillcard NG range of infrared gas sensors has been extended to include two new gases, CO (carbon monoxide) and CO2 (carbon dioxide). The equivalent Gascard NG sensors for these gases are designed for use in air-like atmospheres and have reduced source lifetimes when exposed to high levels of hydrogen in the sample stream.

The Chillcard NG range uses a micro-machined thermal infrared emitter which has a longer lifetime in these challenging environments giving less downtime and a reduced overall cost of ownership. The Chillcard NG has been designed for easy integration into a wide range of gas detection systems. High quality, long term stability, repeatability and reliable measurement of various gases mean that the Chillcard NG is,like its cousin the Gascard NG, applicable in a wide range of gas sensing solutions.

The Chillcard NG can be customised to cover a wide range of gases and gas ranges that include not only CO and CO2 but also refrigerants and other halogenated hydrocarbons.

The Chillcard NG series now provides solutions for measuring and analysing many industrial and environmental gases.

Automatic Temperature and Pressure corrections are included and enable real-time environmental condition measurements thus providing true concentration readings and reliable measurement of the target gases.

The Gascard NG sensor head and electronics are mounted on a Eurocard PCB with several bit-switches which enable the user to control various aspects of the sensors behavior including analogue output and electronic filter type.

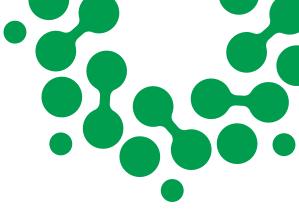
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TECHNICAL SPECIFICATIONS

GAS MEASUREMENT RANGE



I I	
-	0 - 3%
0 - 30%	0 - 10%
0 - 100%	0 - 30%
-	0 - 50%
±2% of range*	
±2% of range (over 12 months)	
At zero: generally <±1% of range. At span: <±2% of range	
Bit-switch selectable T90 = variable (de	termined by bit-switch and firmware)
0 - 45°C	
<± 0.1% range per C	
800 - 1150mbar (lower pressures with reduced accuracy)	
24V DC (7 - 30V)	
Operation time: 1 minute (initial) Full specification: 30 mins	
Measurement unaffected by 0-90% RH non-condensing	
Linear 4-20mA, 0-20mA (bit-switch selectable) up to 500Ω or voltage output load	
Bit-switch selection of various options zero and span adjust buttons	
	0 - 30% 0 - 100% - ±2% of range* ±2% of range (over 12 months) At zero: generally <±1% of range. At sp. Bit-switch selectable T90 = variable (de 0 - 45°C <± 0.1% range per C 800 - 1150mbar (lower pressures with re 24V DC (7 - 30V) Operation time: 1 minute (initial) Full sp. Measurement unaffected by 0-90% RH Linear 4-20mA, 0-20mA (bit-switch selection to 500Ω or voltage output load

The Special Chillcard NG can also be supplied with an Ethernet option and additional accessories which include a digital display kit and a 24 V pump.

PRODUCT APPLICATIONS

- Heat Treatment
- Process Control
- Endothermic Gas
- Gasification



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^{*}Not including calibration gas tolerance