

Infrared Gas Sensors: Chillcard Range

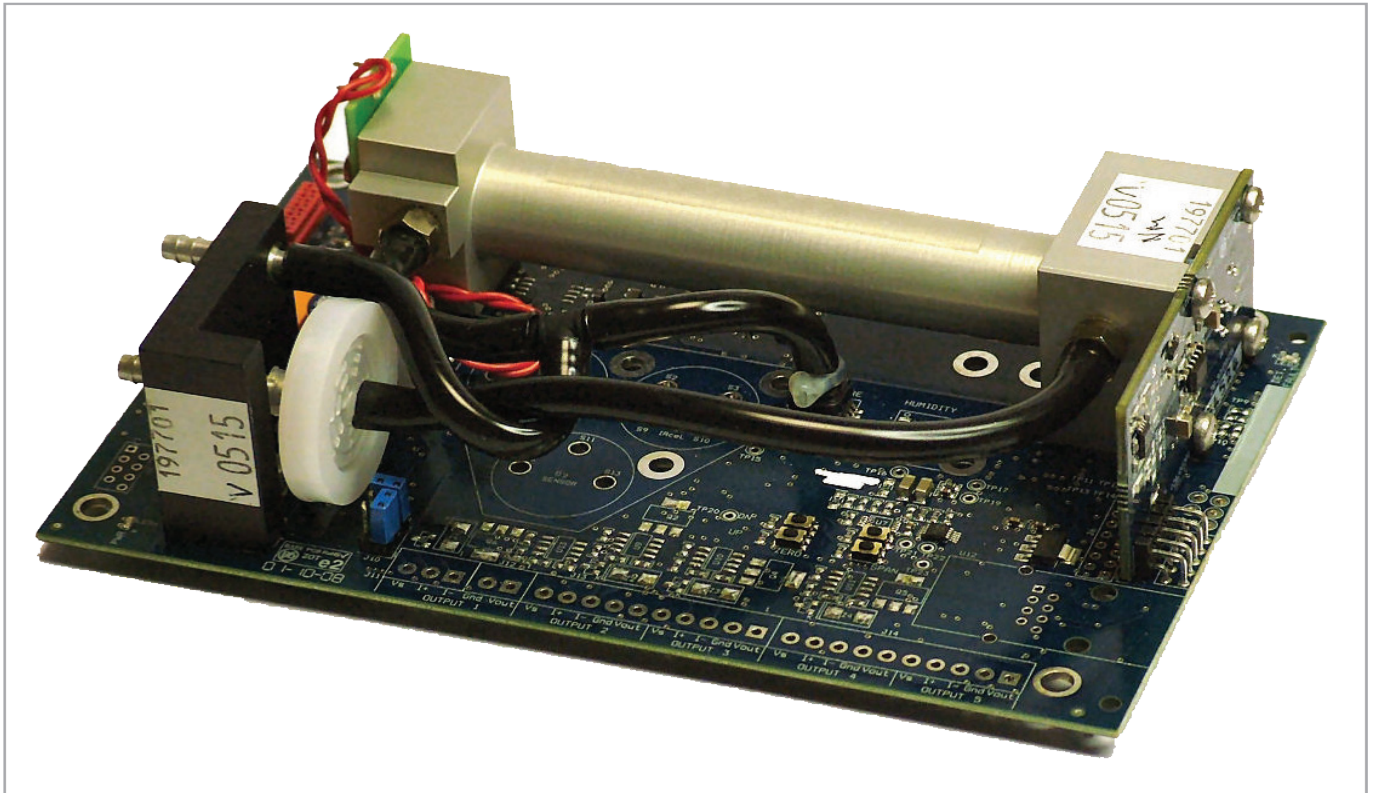
Chillcard NG

For refrigerants



EDINBURGH
SENSORS

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The 'Chillcard NG' range of gas sensor instruments, provide high accuracy detection and measurement of R-125, R-134a, R-22 refrigerant gas, where detection levels of 0 – 3000ppm by volume are required.

We also custom-manufacture Chillcard NG instruments to measure certain other refrigerant gases – please contact us to discuss your specific requirements.

Suitable for a wide variety of applications these gas sensors can detect gases from sampling points up to 30 metres away, using the optional sampling pump.

The reliability, accuracy and long-term stability of the Chillcard NG, combined with its low maintenance requirements can be attributed to our proprietary dual-wavelength infrared sensor technology and over thirty years of sensor design and manufacturing experience.

The Chillcard NG instruments come complete with a range of useful optional extras and accessories.

Chillcard NG Product Applications:

- **Personal safety –**
Key part of your H&S regime.
- **Process control –**
Continuous fixed gas monitoring for cost saving and safety.
- **IAQ –**
Healthy buildings make for productive output
- **Horticulture –**
Enabling vigorous growth

Technical Specifications

| Model | Gas | Accuracy* | Stability | Repeatability@zero | Repeatability@span |
|--------------------------|---|---------------|---------------|--------------------|--------------------|
| Chillcard NG 0 – 3000ppm | refrigerants | ± 5% of range | to be advised | ± 1% | ± 3% |
| Response time | T ₉₀ = 30 seconds | | | | |
| Operating temperature | 0 – 45°C | | | | |
| Operating pressure | 800 – 1150mbar | | | | |
| Warm-up time | 5 minutes (operational) 40 minutes (full specification) | | | | |
| Humidity | Measurements are generally unaffected by 95% relative humidity, non condensing | | | | |
| Output signal | 4 – 20mA or 0 – 20mA (linear) (Load dependant on supply), 0.006mA resolution (Optional voltage output) | | | | |
| Controls fitted | zero and span adjustment potentiometers | | | | |
| Bitswitch parameters: | Analogue (current) output: 0 – 20mA or 4 – 20mA Response time: standard or RC | | | | |
| Expansion facilities | 2 adjustable alarm setpoints; 2 alarm indicators; 2 alarm relay outputs; 1 fault indicator; 1 fault relay output, LCD; remote zero and span switches | | | | |
| Options | 4 digit LCD including ribbon cable connector 10 – 30 Volt DC diaphragm pump (1 litre per minute) | | | | |
| Power requirements | 24V DC (7 – 30V) | | | | |
| Power consumption | 6 Watts maximum | | | | |
| Weight | 0.3Kg | | | | |
| Dimensions | 100mm x 160mm x 40mm (EuroCard) | | | | |

* Stated accuracy excludes calibration gas tolerance of ± 1%

Similar models available

| | |
|-------------------|---|
| Gascard NG | Measurement of CO ₂ in ranges 0 – 3000ppm to 0-100% Measurement of CO in range 0 – 100% Measurement of CH ₄ in ranges 0 – 5% to 0 – 100% Measurement of C ₆ H ₁₄ in range 0 – 2000ppm Measurement of other hydrocarbons |
|-------------------|---|

Customer support is available worldwide, from the moment you enquire through to our post sales installation support.

For more information contact us at sales@edinst.com or visit www.edinburghsensors.com

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