

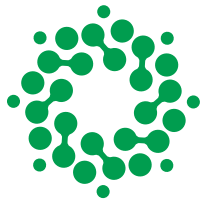


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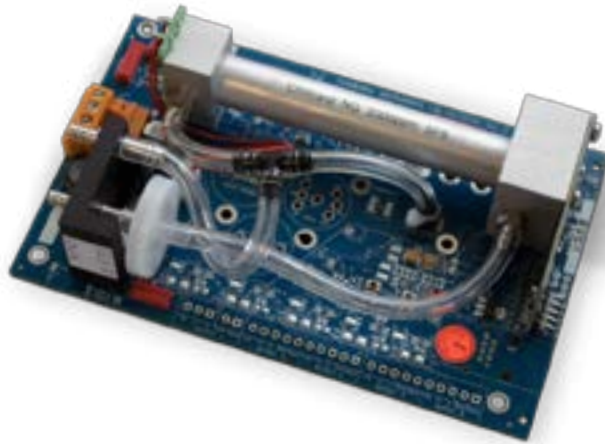
**Edinburgh  
Sensors**

Experts in Gas Detection

Infrared gas sensors: Chillcard NG Range

**CHILLCARD NG**

For Refrigerants - R125, R134a & more...



**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 voltage range (7V - 30V)
- True RS232 communications for control and data logging
- Optional on-board LAN support
- Expansion port supporting both simple 4 Digit and 128 x 64 pixel Graphic Display Modules

## A NEW GENERATION OF GAS SENSORS

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

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

The Chillcard NG is suitable for a wide variety of applications and using the optional sampling pump it can detect gases from sampling points up to 30 metres away.

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 design and manufacturing experience.

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

# CHILLCARD NG

For Refrigerants - R125, R134a & more...



## TECHNICAL SPECIFICATIONS

### GAS MEASUREMENT RANGE

| MODEL                 | R125   | R134a       |
|-----------------------|--|-------------|
| Chillcard NG          | 3000ppm  | 0 - 3000ppm |
| Accuracy              | ±5% of range *   |             |
| Stability             | Zero drift is better than ±5% of range per year  |             |
| Repeatability         | Better than ±5% of range   |             |
| Response time         | T90 = 30 seconds   |             |
| Operating temperature | 0-45°C300 seconds  |             |
| Operating Pressure    | 800 - 1150mbar standby mode)   |             |
| Warm-up time          | 5 minutes (operational) 40 minutes (full specification)connection and other pressures  |             |
| Humidity              | Measurements are generally unaffected by 0-95% relative humidity, non-condensing   |             |
| Output signal         | 4-20mA or 0-20mA linear (load dependent on supply),<br>0.006mA resolution, optional voltage output on request  |             |
| Controls fitted       | Zero and span adjustment switches4 - 20mA and digital (RS232) outputs)   |             |
| Bitswitch parameters: | Analogue (current) output: 0-20mA or 4-20mA<br>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 |             |
| Accessories           | 4 digit LCD display, 128 x 64 pixel Graphic Display<br>10-30 Volt DC diaphragm pump (1 litre per minute) (optional)                                  |             |
| Power requirements    | 24V DC (7-30V)   |             |
| Power consumptions    | 6 Watts maximum  |             |
| Weight                | 0.3KG  |             |
| Dimensions            | 100mm x 160mm x 40mm (EuroCard)  |             |

The Chillcard NG can also be supplied with an Ethernet option.

\*Other refrigerant gasses are possible. Please contact us for further information

\*Stated accuracy excludes calibration gas tolerance of ±2%.

## PRODUCT APPLICATIONS

- Personal Safety
- Process Control
- Leak Detection
- An many more...