KEY FEATURES

- Modern electronics platform with the increased power and versatility of fast microprocessors
- Low operating voltage (7V) and wide operating voltage range (7V - 30V)
- On-board Barometric Pressure Correction in the range 800mbar - 1150mbar
- True RS232 communications for control and data logging
- Extensive Temperature compensation
- Optional on-board LAN support
- Silicon micro-machined IR source
- Expansion port supporting both simple 4 Digit and 128 x 64 pixel Graphic Display Modules
- Long Term Stability

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.

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.

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

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

For Refrigerants - R125, R134a & more...

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### TECHNICAL SPECIFICATIONS

#### GAS MEASUREMENT RANGE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>R125</th>
<th>R134a</th>
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<tbody>
<tr>
<td>Chillcard NG</td>
<td>3000ppm</td>
<td>0 - 3000ppm</td>
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</tbody>
</table>

#### Specifications

- **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°C
- **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), 0.006mA resolution, optional voltage output on request
- **Controls fitted**: Zero and span adjustment switches, 4 - 20mA and digital (RS232) outputs
- **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
- **Accessories**: 4 digit LCD display, 128 x 64 pixel Graphic Display, 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%.

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**PRODUCT APPLICATIONS**

- **PERSONAL SAFETY**
- **LEAK DETECTION**
- **PROCESS CONTROL**
- **AND MANY MORE...**

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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 our continuous product development all specifications are subject to change without prior notice.