

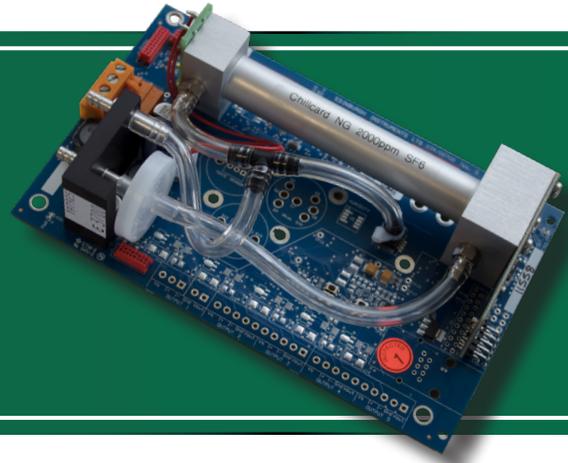
Infrared gas sensors: **Chillcard NG Range**

# 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.

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## 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), 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 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%.

## PRODUCT APPLICATIONS

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

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.

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