

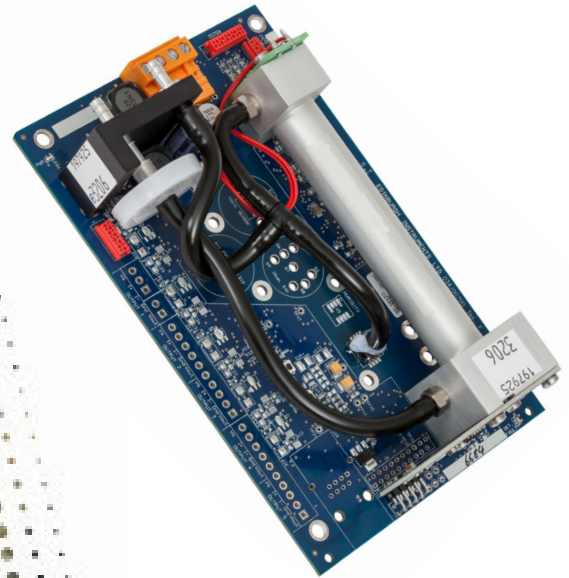
Infrared gas sensors: CHILLCARD NG RANGE

CHILLCARD NG FR

FOR REFRIGERANTS



EDINBURGH
SENSORS



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 | FAST, ACCURATE AND RELIABLE

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.

TECHNICAL SPECIFICATIONS

GAS MEASUREMENT RANGE

MODEL	R125	R134a
Chillcard NG	0 - 3000ppm	0 - 3000ppm
Accuracy	±5% of range *	
Stability	To be advised - Less than ±5% of range per year	
Repeatability	Less than ±5% of range	
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 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	
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 display 10-30 Volt DC diaphragm pump (1 litre per minute)	
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 and additional accessories which include a digital display kit and a 24 V pump.

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

CHILLCARD NG PRODUCT APPLICATIONS:

- PERSONAL SAFETY
- LEAK DETECTION
- PROCESS CONTROL
- Many more
- IAQ

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