



## ChillCard

Dual wavelength Infra-Red refrigerant gas sensor

The ChillCard is a microprocessor based OEM infrared refrigerant gas sensor designed to monitor systems containing the following gases:

- **R-11 (TriChloroFluoroMethane)**
- **R-12 (DiChloroDiFluoroMethane)**
- **R-22 (ChloroDiFluoroMethane)**
- **R-123 (2,2-DiChloro-1,1,1-TriFluoroEthane)**
- **R-125 (PentaFluoroEthane)**
- **R-134a (1,1,1,2-TetraFluoroEthane)**

Where gas mixes have a high proportion of one of the above gases a unit will be supplied to measure the high proportion gas.

### Specifications

<b>Sensing Technology</b>	Infra Red
<b>Measurement Range</b>	0 - 1000 ppm
<b>Resolution</b>	1 ppm
<b>Pump Aspiration Flow Rate</b>	500 ml/min
<b>Response Time</b>	30 s
<b>Outputs</b>	4 - 20 mA (factory set for loop powered) 0 - 10 Vdc
<b>Power requirements</b>	250mA, 24-38Vdc, 17-27 Vac
<b>Operating Temperature</b>	0 ... 40°C
<b>Operating Humidity</b>	5 ... 90% non condensing
<b>Dimensions</b>	<b>PCB:</b> 165×165×30 mm <b>Sensor Head:</b> 38×46×173 mm
<b>Weight</b>	400g

### Versatile

#### • Point Sensor

When installed within an enclosure, the Chillcard can be used as a point sensor. This uses the diffusion of refrigerant gas through the head shell membrane.

When used as a point sensor, it is recommended that the unit should be placed 30cm from the floor as refrigerants are heavier than air

#### • Flow Through

When used as part of a multichannel sampling system the ChillCard should be used in the flow through mode. Here the calibration port is used to supply gas to the head shell at the flow rate specified below.

### Reliable

All **Chillcard** Sensors are supplied with a 1 year warranty against defective workmanship and parts, reflecting its inherent reliable.



EDINBURGH SENSORS: The gas sensor division of EDINBURGH INSTRUMENTS Ltd.

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