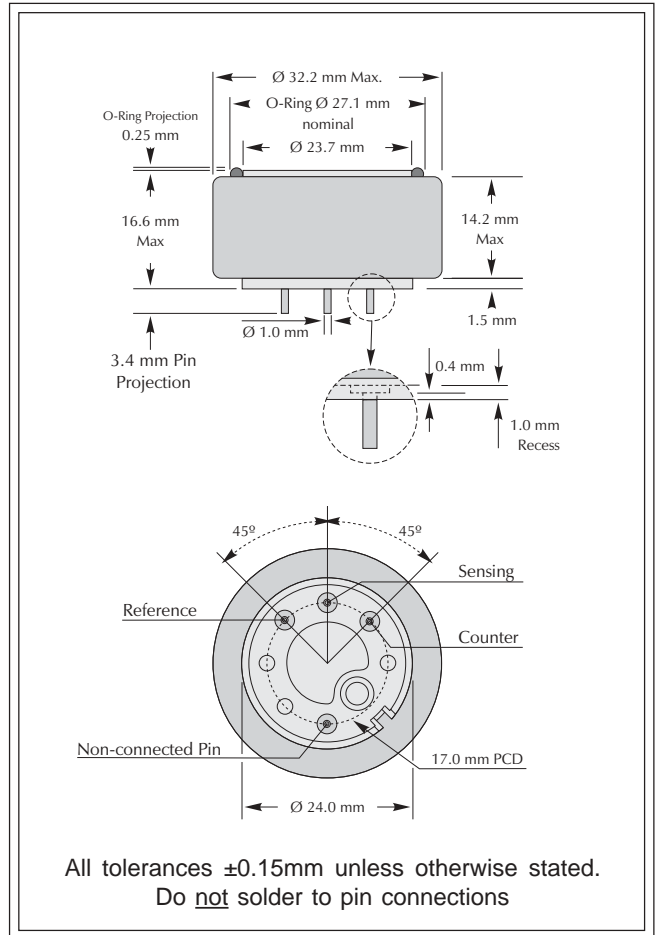


7HCN CiTiceL[®]

Performance Characteristics

Nominal Range	0-100ppm
Maximum Overload	200ppm
Expected Operating Life	One year in air
Output Signal	0.1 ± 0.02 µA/ppm
Resolution	0.5ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T₉₀ Response Time	≤150 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	-2.0 to +1.5ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	no data
Long Term Output Drift	<5% signal loss/month
Recommended Load Resistor	10Ω
Bias Voltage	Not required
Repeatability	2% of signal
Output Linearity	Linear

N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar



IMPORTANT NOTE: Connection should be made via PCB sockets only. Soldering to the pins will render your warranty void.

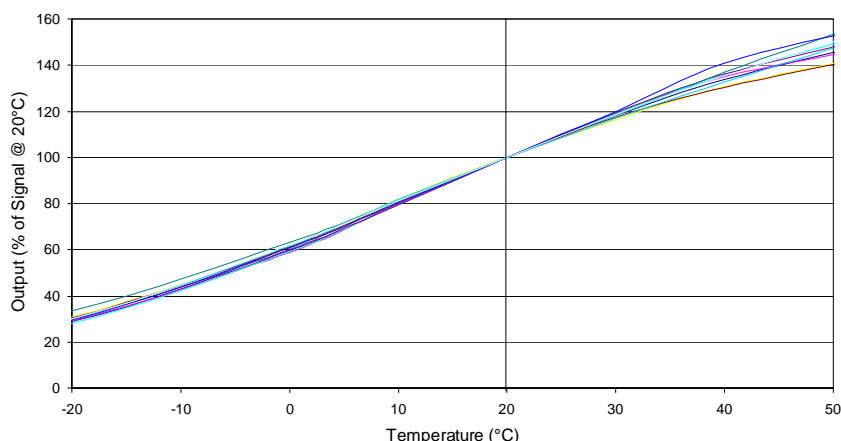
Physical Characteristics

Weight	17g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	12 months from date of despatch

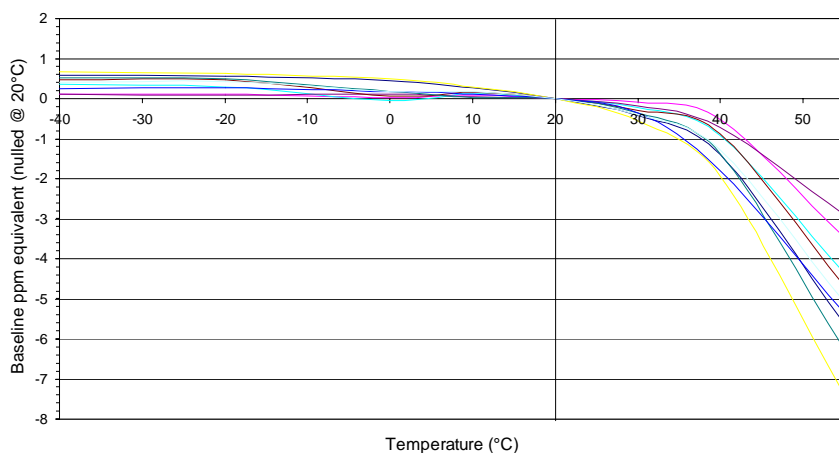
Hydrogen Cyanide CiTiceL[®] Specification



7HCN Hydrogen cyanide CiTiceL - Output vs Temperature



7HCN Hydrogen Cyanide CiTiceL - Baseline vs Temperature



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Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7HCN CiTiceLs have been tested with a number of commonly cross-interfering gases and the results are given below. The table shows the typical response to be expected from a sensor when exposed to a given test gas concentration (relevant to safety, e.g. TLV levels).

<u>Gas</u>	<u>Conc.</u>	<u>7HCN</u>	<u>Gas</u>	<u>Conc.</u>	<u>7HCN</u>
Carbon monoxide:	300ppm	<54ppm	Chlorine:	1ppm	≈0.5ppm
Hydrogen sulphide:	15ppm	See note below	Hydrogen:	200ppm	0ppm
Sulphur dioxide:	5ppm	5.5 ≤ x ≤ 17.5ppm	Hydrogen chloride:	5ppm	n/d
Nitric oxide:	35ppm	-17.5 ≤ x ≤ 0ppm	Ethylene:	100ppm	≤55ppm
Nitrogen dioxide:	5ppm	-20 ≤ x ≤ -10ppm	**For details of other possible cross-interfering gases contact City Technology.**		

Note: Due to a very high cross-sensitivity (≈350%), this sensor is unsuitable for use in atmospheres which contain hydrogen sulphide.

n/d: No data yet, under investigation

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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.