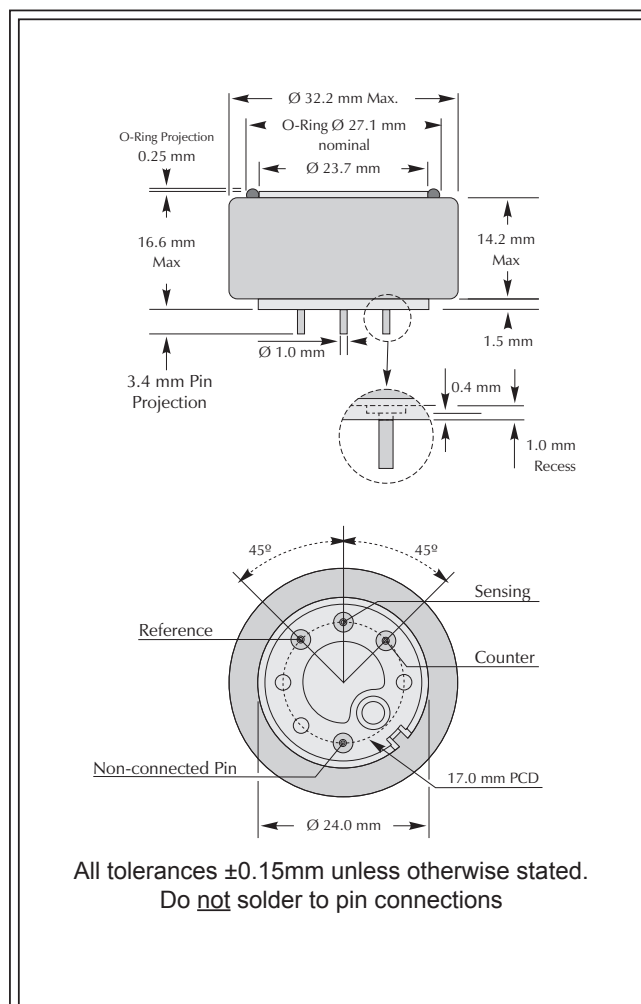


Hydrogen Chloride CiTiceL[®] Specification7HL CiTiceL[®]**Performance Characteristics**

Nominal Range	0-50ppm
Maximum Overload	100ppm
Expected Operating Life	Two years in air
Output Signal	$0.75 \pm 0.25 \mu\text{A/ppm}$
Resolution	0.5ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric $\pm 10\%$
Pressure Coefficient	No data
T₉₀ Response Time	≤ 120 seconds (typically 100)
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	0 to +2ppm
Maximum Zero Shift (+20°C to +40°C)	4ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	33 Ω
Bias Voltage	+300mV
Repeatability	2% of signal
Output Linearity	Linear

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

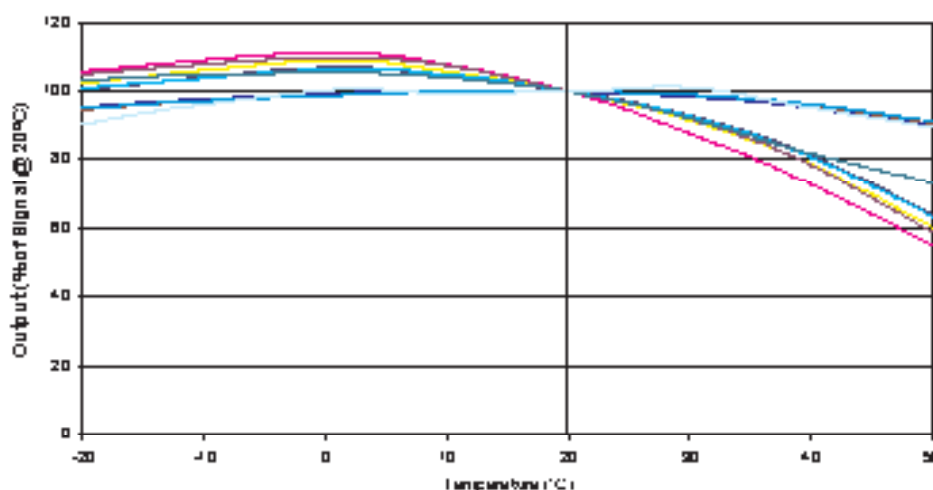
**Physical Characteristics**

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

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

Hydrogen Chloride CiTiceL[®] Specification

7HL Hydrogen chloride CiTiceL - Output vs Temperature



Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7HL 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).

Gas	Conc.	7HL	Gas	Conc.	7HL
Carbon monoxide:	300ppm	<3ppm	Chlorine:	1ppm	$-0.05 < x < 0.1$ ppm
Hydrogen sulphide:	15ppm	$27 < x < 45$ ppm	Hydrogen:	100ppm	<0.5ppm
Sulphur dioxide:	5ppm	$1.5 < x < 3.5$ ppm	Hydrogen cyanide:	10ppm	<0.3ppm
Nitric oxide:	35ppm	0ppm	Ethylene:	100ppm	<6ppm
Nitrogen dioxide:	5ppm	$0.5 < x < 1$ ppm	**For details of other possible cross-interfering gases contact City Technology.**		

Ordering Information:

Also available with bias board (7BHL)