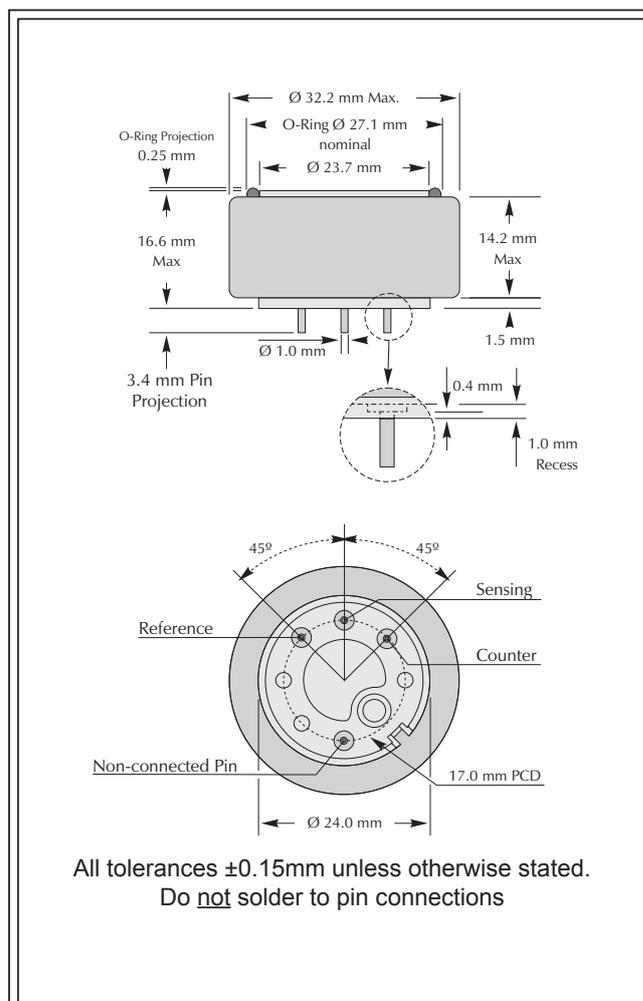


Hydrogen Chloride CiTiceL<sup>®</sup> Specification7HL CiTiceL<sup>®</sup>**Performance Characteristics**

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

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

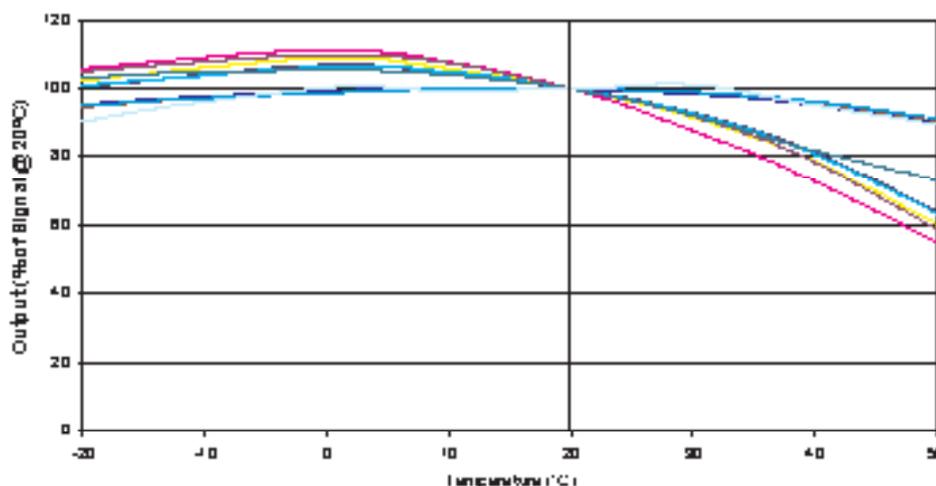
**Physical Characteristics**

<b>Weight</b>	17g
<b>Position Sensitivity</b>	None
<b>Storage Life</b>	Six months in CTL container
<b>Recommended Storage Temperature</b>	0-20°C
<b>Warranty Period</b>	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<sup>®</sup> 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\$<0.1ppm
Hydrogen sulphide:	15ppm	27<x\$<45ppm	Hydrogen:	100ppm	<0.5ppm
Sulphur dioxide:	5ppm	1.5<x\$<3.5ppm	Hydrogen cyanide:	10ppm	<0.3ppm
Nitric oxide:	35ppm	0ppm	Ethylene:	100ppm	<6ppm
Nitrogen dioxide:	5ppm	0.5<x\$<1ppm	**For details of other possible cross-interfering gases contact City Technology.**		

#### Ordering Information:

Also available with bias board (7BHL)