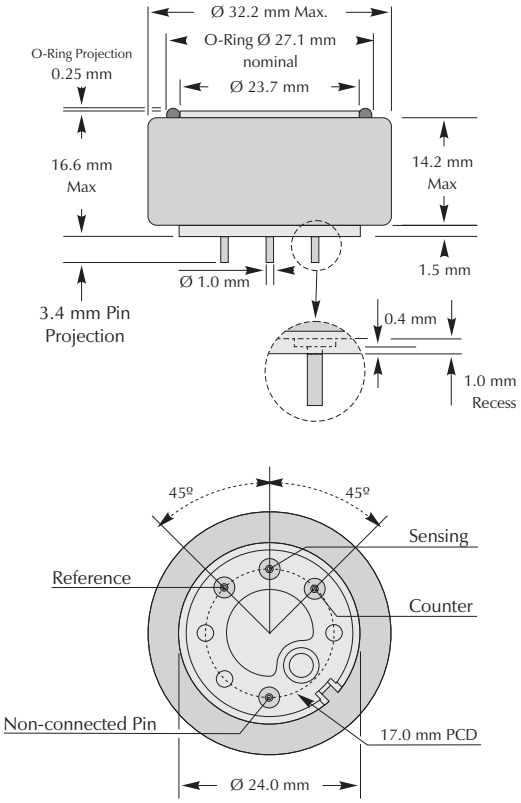
7CLH CiTiceL®

Performance Characteristics

Nominal Range	0-20ppm
Maximum Overload	250ppm
Expected Operating Life	Two years in air
Output Signal	1.0 ± 0.25 µA/ppm
Resolution	0.1ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T_{80}* Response Time	<60 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	0 to +0.5ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	-0.2ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	33Ω
Bias Voltage	Not required
Repeatability	2% of signal
Output Linearity	Linear

*T_{80} **Time taken for signal to reach 80% of final signal.**
N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar



All tolerances ±0.15mm unless otherwise stated.
Do not solder to pin connections

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.

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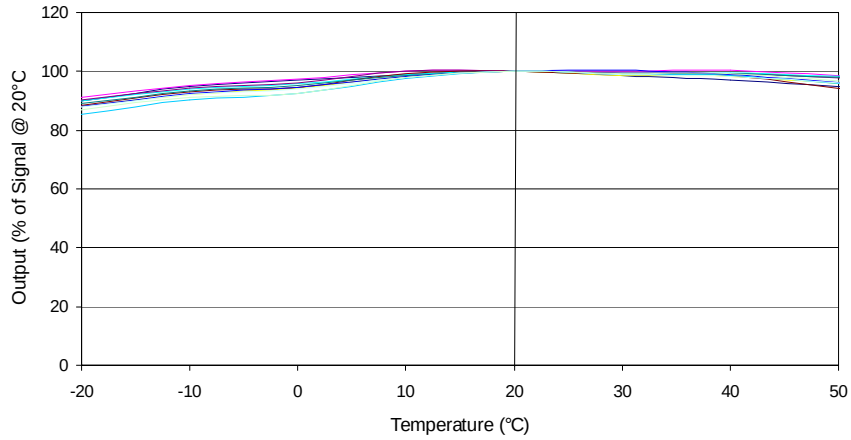
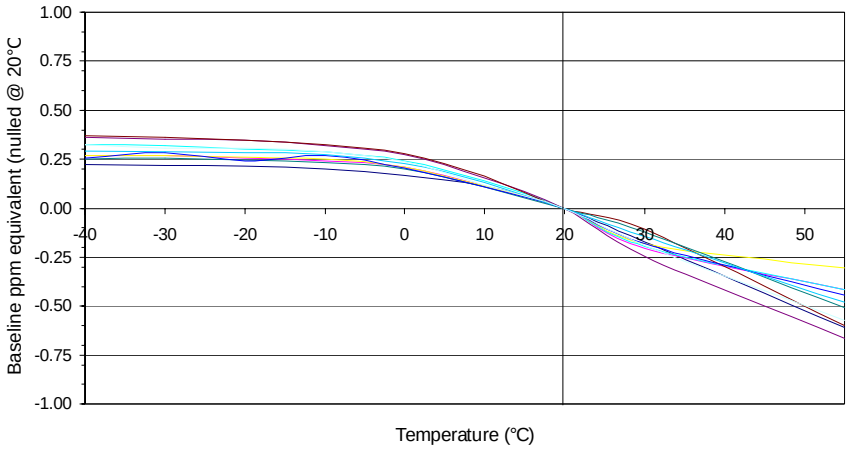
7CLH Chlorine CiTiceL - Output vs Temperature



7CLH Chlorine CiTiceL - Baseline vs Temperature



Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7CLH 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.	7CLH	Gas	Conc.	7CLH
Carbon monoxide:	300ppm	0ppm	**Hydrogen:**	100ppm	0ppm
Hydrogen sulphide:	15ppm	-3.8<x$<0ppm	**Hydrogen cyanide:**	10ppm	0ppm
Sulphur dioxide:	5ppm	-0.05ppm	**Hydrogen chloride:**	5ppm	0ppm
Nitric oxide:	35ppm	0ppm	**Ethylene:**	100ppm	0ppm
Nitrogen dioxide:	5ppm	≈5ppm			

For details of other possible cross-interfering gases contact City Technology.

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