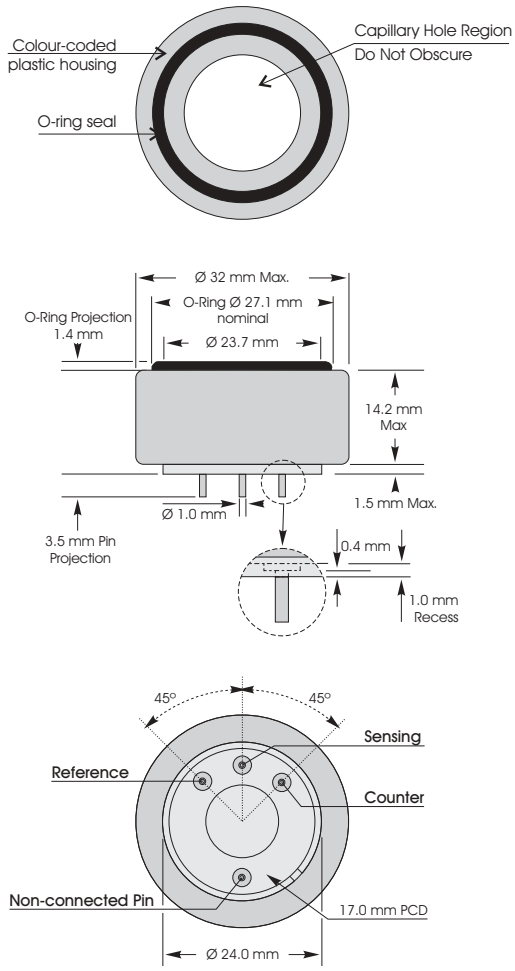
7HH CiTiceL®

Performance Characteristics

Nominal Range	0-50ppm
Maximum Overload	500ppm
Expected Operating Life	Two years in air
Output Signal	1.70 ± 0.30 µA/ppm
Resolution	0.1ppm
Temperature Range	-40°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T_{90} Response Time	≤30 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	-0.2 to +0.4ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	0.1ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	10Ω
Bias Voltage	Not required
Repeatability	1% of signal
Output Linearity	Linear

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

Colour of Top	Dark Blue
Weight	12g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	24 months from date of despatch (This amounts to a variation of condition 6 of our standard terms and conditions which otherwise apply)

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

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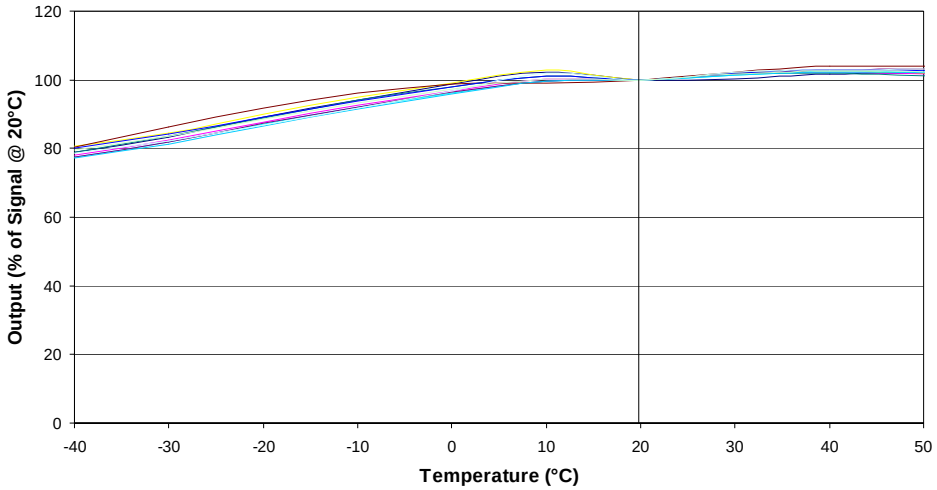
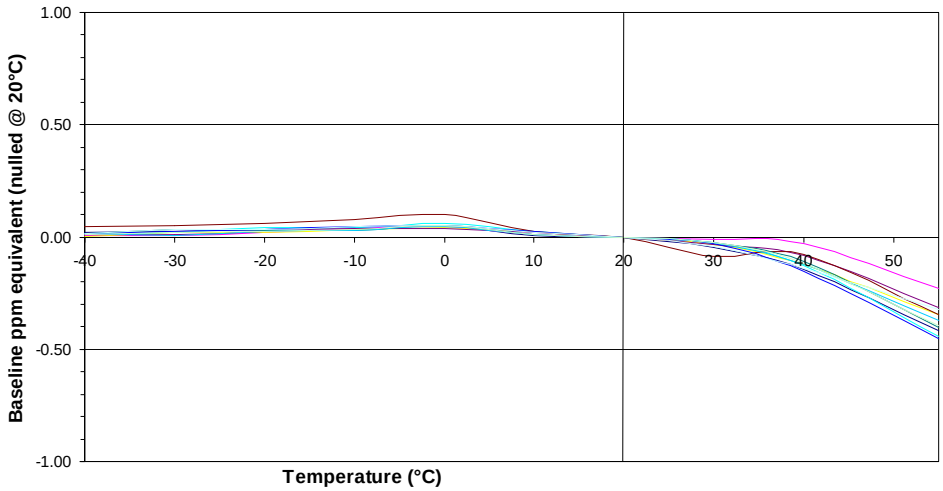
Hydrogen Sulphide CiTiceL® Specification

7HH Hydrogen sulphide CiTiceL - Output vs Temperature



7HH Hydrogen sulphide 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. 7HH 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.	7HH	Gas	Conc.	7HH
Carbon monoxide:	300ppm	≤1.5ppm	**Hydrogen:**	10,000ppm	<5ppm
Sulphur dioxide:	5ppm	<1ppm	**Hydrogen cyanide:**	10ppm	-1.4ppm ≤ x$ ≤ -0.1ppm
Nitric oxide:	35ppm	<2ppm	**Hydrogen chloride:**	5ppm	0ppm
Ethylene:	100ppm	0ppm	**Nitrogen dioxide:**	5ppm	-1ppm ≤ x$ ≤ 0ppm
Chlorine:	1ppm	≈-0.2ppm			

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

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