7HH CiTiceL®

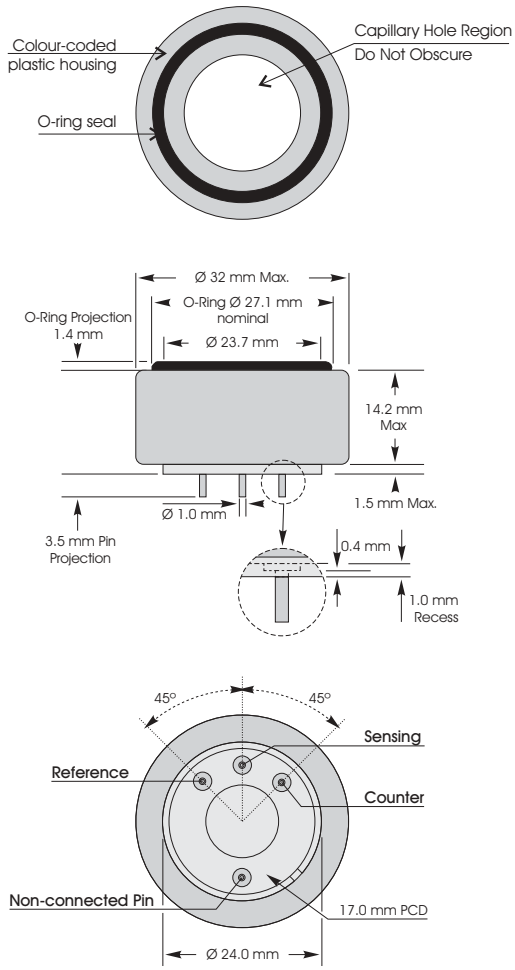
Performance Characteristics

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

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)



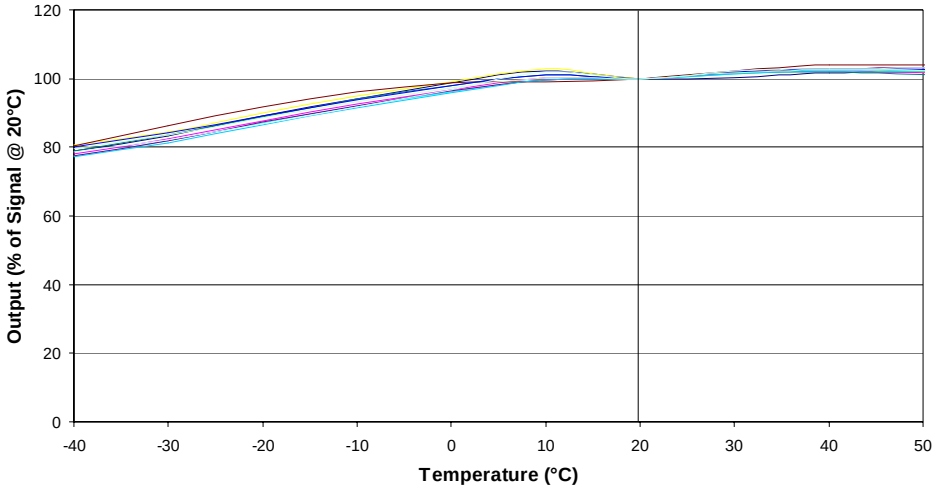
All tolerances ±0.15mm unless otherwise stated.
Do not solder to pin connections

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

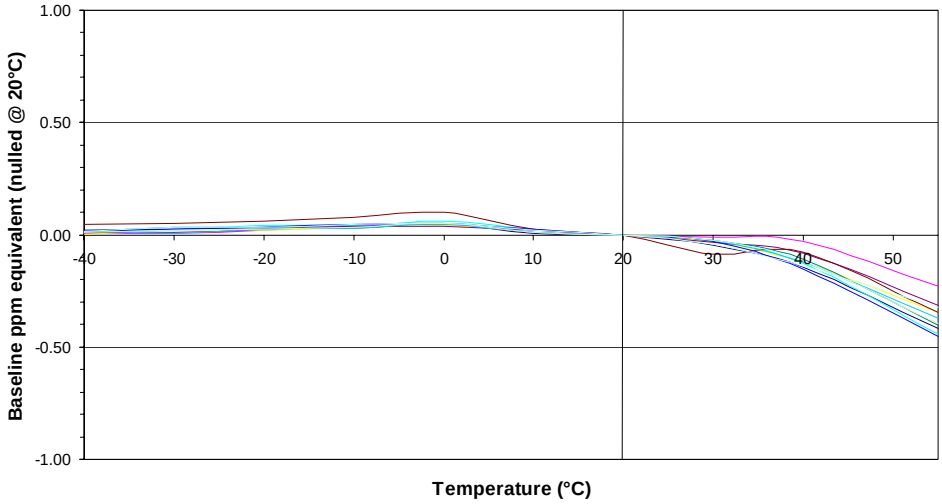
City Technology Ltd, City Technology Centre, Walton Rd, Portsmouth PO6 1SZ, UK
Tel:+44 23 9232 5511, Fax:+44 23 9238 6611, sensors@citytech.co.uk, www.citytech.com

Hydrogen Sulphide CiTiceL® Specification

7HH Hydrogen sulphide CiTiceL - Output vs Temperature



7HH Hydrogen sulphide CiTiceL - Baseline vs Temperature



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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