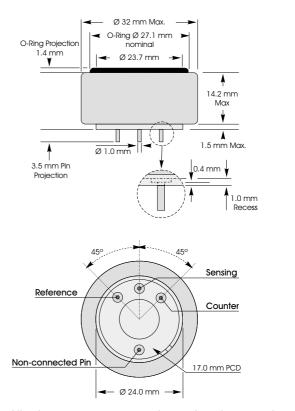
Hydrogen Sulphide CiTiceL® Specification



7H CiTiceL®

Performance Characteristics

Nominal Range	0-200ppm	
Maximum Overload	1000ppm	
Expected Operating Life	Two years in air	
Output Signal	0.37 ± 0.07 µA/ppm	
Resolution	0.25ppm	
Temperature Range	-40°C to +50°C	
Pressure Range	Atmospheric ± 10%	
Pressure Coefficient	0.008 ± 0.002 %signal/mBar	
T ₉₀ Response Time	≤35 seconds	
Relative Humidity Range	15 to 90% non-condensing	
Typical Baseline Range (pure air)	-0.6 to +1.9ppm equivalent	
Maximum Zero Shift (+20°C to +40°C)	2ppm equivalent	
Long Term Output Drift	<2% signal loss/month	
Recommended Load Resistor	10Ω	
Bias Voltage	Not required (See Application Note #7)	
Repeatability	1% of signal	
Output Linearity	Linear	



All tolerances ± 0.15 mm unless otherwise stated. Do <u>not</u> solder to pin connections

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

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)	

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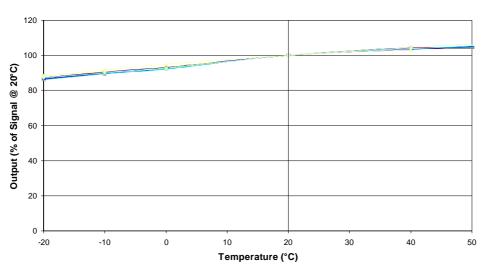
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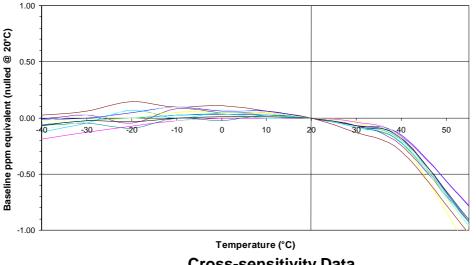
Hydrogen Sulphide CiTiceL[®] Specification

7H Hydrogen sulphide CiTiceL - Output vs Temperature





7H 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. 7H 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.	<u>7H</u>	Gas	Conc.	<u>7H</u>
Carbon monoxide:	300ppm	≤6ppm	Hydrogen:	10,000ppm	<15ppm
Sulphur dioxide:	5ppm	<1ppm	Hydrogen cyanide:	10ppm	-1.4ppm≤x\$≤-0.5ppm
Nitric oxide:	35ppm	0ppm	Hydrogen chloride:	5ppm	0ppm
Nitrogen dioxide:	5ppm	≈-1ppm	Chlorine:	1ppm	-0.05 ppm $\le x$ $\$ \le +0.04$ ppm
Ethylene:	100ppm	0ppm	**For details of other possible cross-interfering gases contact City Technology.**		

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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.

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