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Hydrogen Sulphide CiTiceL® Specification

4HS/LM CiTiceL®





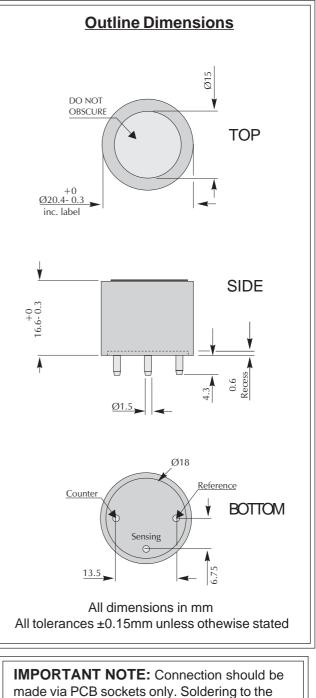
Performance Characteristics

Nominal Range	0-100ppm
Maximum Overload	500ppm
Expected Operating Life	Two years in air
Output Signal	0.70 ± 0.15 μA/ppm
Resolution	0.1ppm
Temperature Range	-40°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	Nodata
T ₉₀ Response Time	≤30 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	-0.1 to +0.4ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	<0.2ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	10Ω
Bias Voltage	Notrequired
Repeatability	<2% of signal
Output Linearity	Linear

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

Physical Characteristics

Weight	5g (approx.)
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	12 months from date of despatch



Testing: 4HS/LM Hydrogen Sulphide CiTiceLs should be tested monthly to confirm sensitivity and response time are adequate.

pins will seriously damage your sensor.

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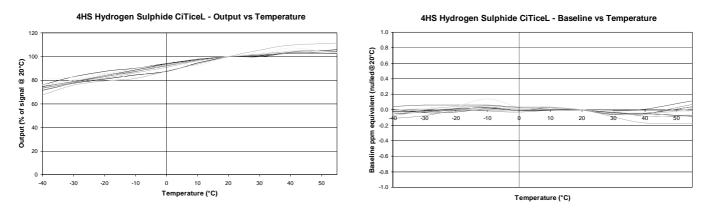
Page 1 of 2

12th February 2003

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Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 4HS/LM 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.	4HS/LM	Gas	Conc.	4HS/LM	
Carbon monoxide: Sulphur dioxide:	300ppm 5ppm	<i>≤</i> 2ppm ≈1ppm	Hydrogen: Nitrogen dioxide:	10000ppm 5ppm	≤10ppm ≈-1ppm	
Nitric oxide:	**For details of other possible cross-interfering gases contact City Technology.**					

Methanol Sensitivity

The 4HS/LM CiTiceL is designed for use in applications where methanol might be present. Whilst cross sensitivity reactions on CiTiceLs are normally readily defined, the behavior of the 4HS/LM when exposed to methanol is significantly more complex, and can not be specified as above for carbon monoxide. The 4HS/LM CiTiceL is the result of an extensive development project, which has achieved, for this application, a significant performance advantage over standard 4HS CiTiceLs.

For more detailed information about the response to methanol please contact Technical Support at 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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Page 2 of 2

12th February 2003

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