



4HS CiTiceL[®]

(Standard version)

Performance Characteristics

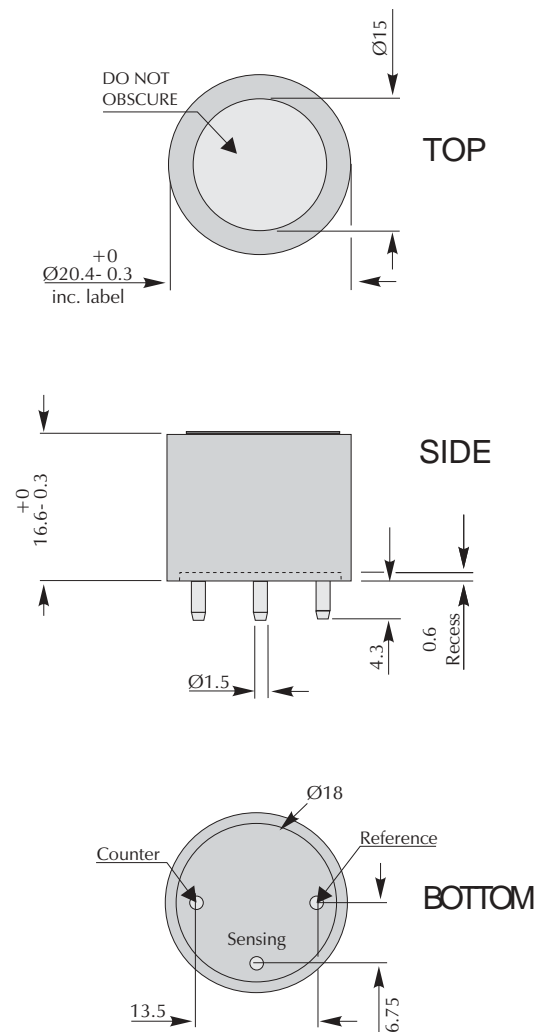
Nominal Range	0-100ppm
Maximum Overload	500ppm
Expected Operating Life	Two years in air
Output Signal	$0.70 \pm 0.15 \mu\text{A/ppm}$
Resolution	0.1ppm
Temperature Range	-40°C to +50°C
Pressure Range	Atmospheric $\pm 10\%$
Pressure Coefficient	No data
T₉₀ Response Time	≤ 30 seconds
Relative Humidity 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	10 Ω
Bias Voltage	Not required
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	24 months from date of despatch (This amounts to a variation of condition 6 of our standard terms and conditions which otherwise apply)

Outline Dimensions



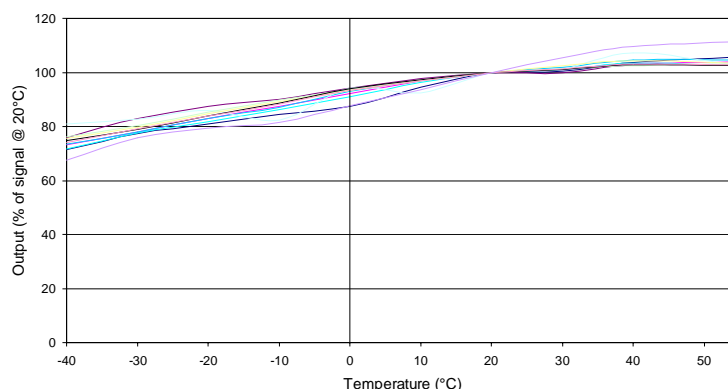
All dimensions in mm
All tolerances $\pm 0.15\text{mm}$ unless otherwise stated

IMPORTANT NOTE: Connection should be made via PCB sockets only. Soldering to the pins will seriously damage your sensor.

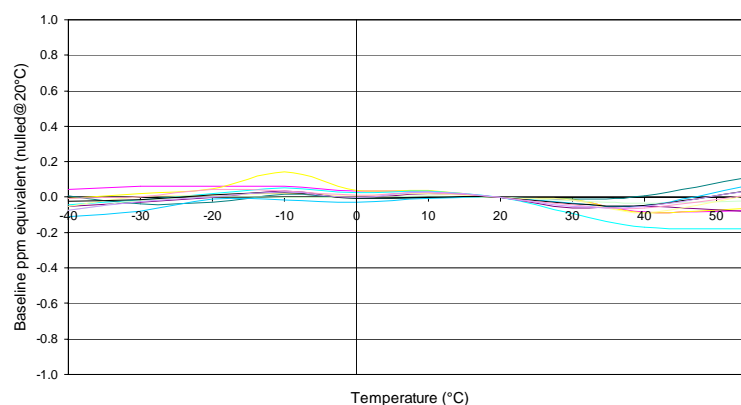
Hydrogen Sulphide CiTiceL[®] Specification



4HS Hydrogen Sulphide CiTiceL - Output vs Temperature



4HS 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. 4HS 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).

<u>Gas</u>	<u>Conc.</u>	<u>4HS</u>	<u>Gas</u>	<u>Conc.</u>	<u>4HS</u>
Carbon monoxide:	300ppm	≤3ppm	Hydrogen:	10000ppm	≤10ppm
Sulphur dioxide:	5ppm	≈1ppm	Nitrogen dioxide:	5ppm	≈-1ppm
Nitric oxide:	35ppm	<0.7ppm			

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.