

4CL CiTiceL®

Performance Characteristics

Nominal Range	0-10ppm		
Maximum Overload	100ppm		
Expected Operating Life	Two years in air		
Output Signal	0.6 ± 0.15 μA/ppm		
Resolution	0.1ppm		
Temperature Range	-20°C to +50°C		
Pressure Range	Atmospheric ± 10%		
T ₈₀ * Response Time	<60 seconds		
Relative Humidity Range	15 to 90% non-condensing		
Typical Baseline Range (pure air)	-0.2 to +0.2ppm equivalent		
Maximum Zero Shift (+20°C to +40°C)	<0.2 ppm equivalent		
Long Term Output Drift	<2% signal loss/month		
Recommended Load Resistor	33Ω		
Bias Voltage	Notrequired		
Repeatability	2% of signal		
Output Linearity	Linear		

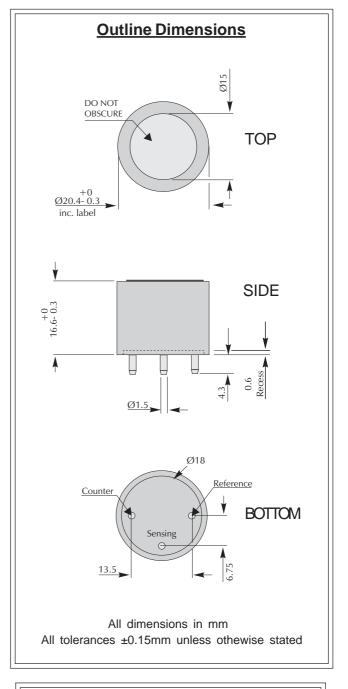
Time taken for signal to reach 80% of final signal. *T₈₀ : N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

Physical Characteristics

Weight 5g (approx.) **Position Sensitivity** None Storage Life 0-20°C Recommended **Storage Temperature** Warranty Period

Six months in CTL container 12 months from date of

despatch



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

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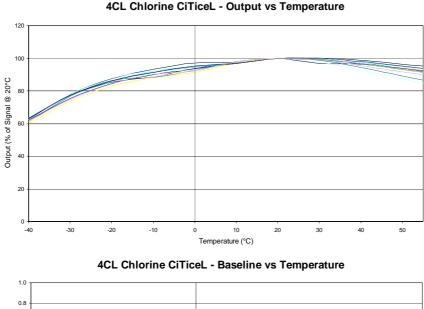
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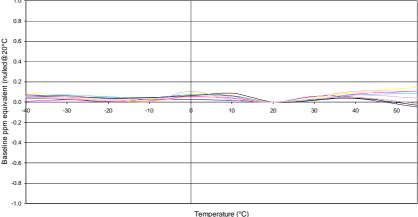
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Chlorine CiTiceL® Specification







Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 4CL 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>4CL</u>	Gas	Conc.	<u>4CL</u>	
Carbon monoxide: Hydrogen sulphide	300ppm 15ppm	$\begin{array}{l} \text{Oppm} \\ \text{-7.5} \leq x\$ \leq \text{Oppm} \end{array}$	Sulphur dioxide: Nitric oxide:	5ppm 35ppm	Oppm Oppm	
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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