

# 7CLH CiTiceL®

### **Performance Characteristics**

Nominal Range 0-20ppm **Maximum Overload** 250ppm **Expected Operating Life** Two years in air **Output Signal**  $1.0 \pm 0.25 \,\mu\text{A/ppm}$ Resolution 0.1ppm -20°C to +50°C **Temperature Range Pressure Range** Atmospheric ± 10% **Pressure Coefficient** No data T<sub>so</sub>\* Response Time <60 seconds **Relative Humidity Range** 15 to 90% non-condensing **Typical Baseline Range** 0 to +0.5ppm equivalent (pure air) **Maximum Zero Shift** -0.2ppm equivalent (+20°C to +40°C) **Long Term Output Drift** <2% signal loss/month **Recommended Load**  $33\Omega$ Resistor **Bias Voltage** Not required Repeatability 2% of signal **Output Linearity** Linear

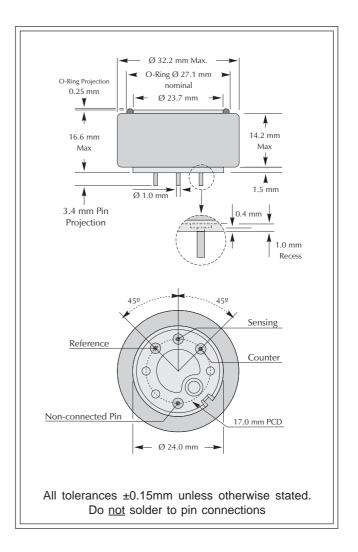
\*T<sub>80</sub> **Time taken for signal to reach 80% of final signal.**N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

### **Physical Characteristics**

Weight 17g
Position Sensitivity None
Storage Life Six months in CTL container

Recommended O-20°C

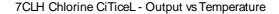
Storage Temperature
Warranty Period 12 months from date of despatch

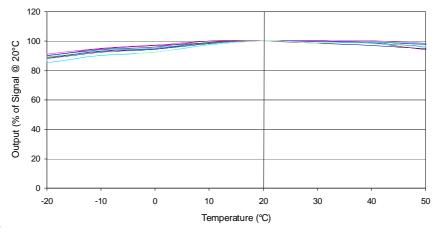


**IMPORTANT NOTE**: Connection should be made via PCB sockets only. Soldering to the pins will render your warranty void.

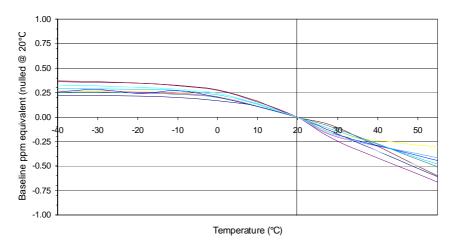
## Chlorine CiTiceL® Specification







7CLH Chlorine CiTiceL - Baseline vs Temperature



### **Cross-sensitivity Data**

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7CLH 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.	7CLH	<u>Gas</u>	Conc.	7CLH
Carbon monoxide:	300ppm	0ppm	Hydrogen:	100ppm	0ppm
Hydrogen sulphide:	15ppm	-3.8 <x\$<0ppm< th=""><th>Hydrogen cyanide:</th><th>10ppm</th><th>0ppm</th></x\$<0ppm<>	Hydrogen cyanide:	10ppm	0ppm
Sulphur dioxide:	5ppm	-0.05ppm	Hydrogen chloride:	5ppm	0ppm
Nitric oxide:	35ppm	0ppm	Ethylene:	100ppm	0ppm
Nitrogen dioxide:	5ppm	≈5ppm	**For details of other possible c	ross-interfering ga	ses 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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