3CLH CiTiceL®

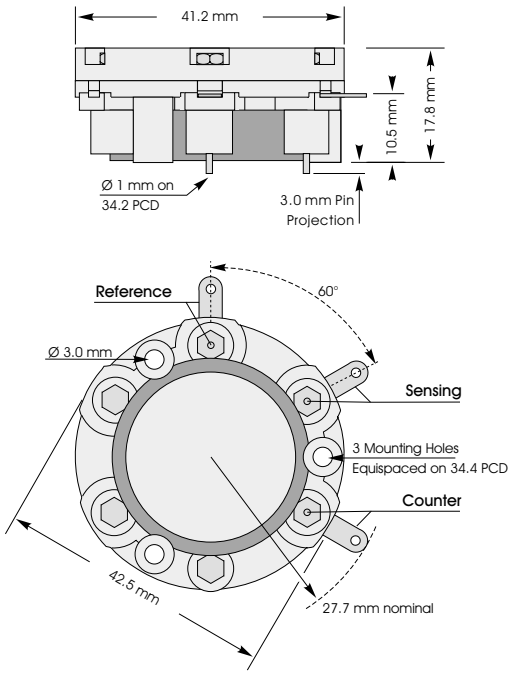
Performance Characteristics

Nominal Range	0-20ppm
Maximum Overload	250ppm
Expected Operating Life	Two years in air
Output Signal	1.0 ± 0.25 µA/ppm
Resolution	0.1ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T_{80}* Response Time	≤60 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Rang (pure air)	0 to +0.5ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	-0.2ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	33Ω
Bias Voltage	Not required
Repeatability	2% of signal
Output Linearity	Linear

***T_{80}** : 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

Outline Dimensions



All tolerances ±0.15mm unless otherwise stated.
Sensor shown with side tags and gold pins.
Do not solder to pin connections

Physical Characteristics

Colour of Ring	Brown
Weight	22g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	12 months from date of despatch

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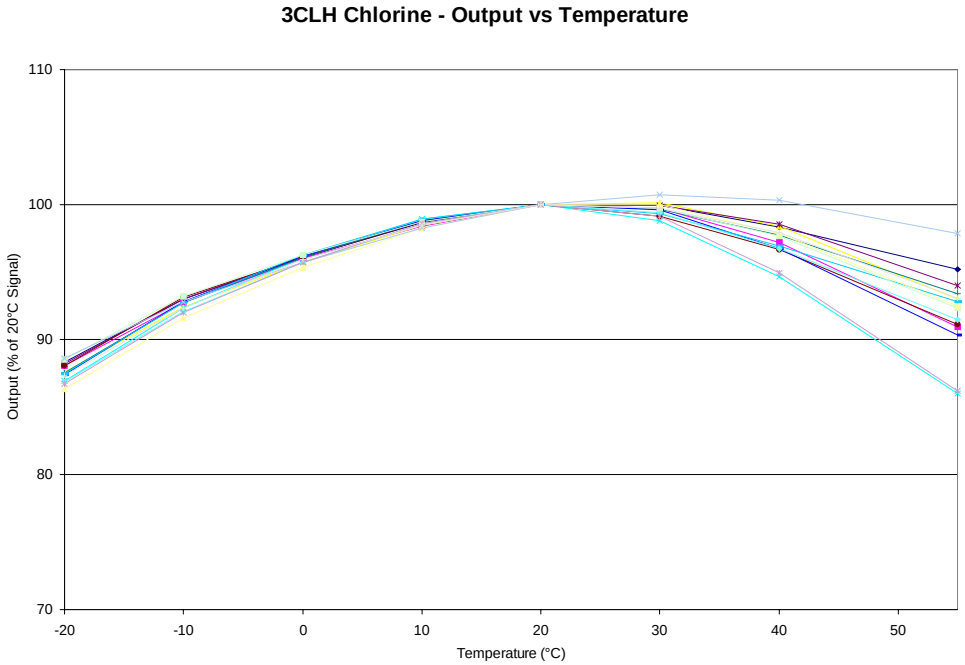

Ordering Information

The 3CLH Chlorine CiTiceL is available with side tags, gold-plated PCB pins, or both PCB pins and side tags. To ensure the appropriate option is supplied care must be taken to provide the correct code when ordering.

Type 3CLH:-	With side tag and PCB pin connections - **3CLH** With side tag connection - **3CLH(S)** With gold-plated PCB pin connection - **3CLH(G)**

Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 3CLH 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.	3CLH	Gas	Conc.	3CLH
Carbon monoxide:	300ppm	0ppm	**Hydrogen:**	100ppm	0ppm
Hydrogen sulphide:	15ppm	≈-1.5ppm	**Hydrogen cyanide:**	10ppm	0ppm
Sulphur dioxide:	10ppm	-0.1<x$<0ppm	**Hydrogen chloride:**	5ppm	0ppm
Nitric oxide:	35ppm	0ppm	**Ethylene:**	100ppm	0ppm
Nitrogen dioxide:	5ppm	≈5ppm			

For details of other possible cross-interfering gases contact City Technology.

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