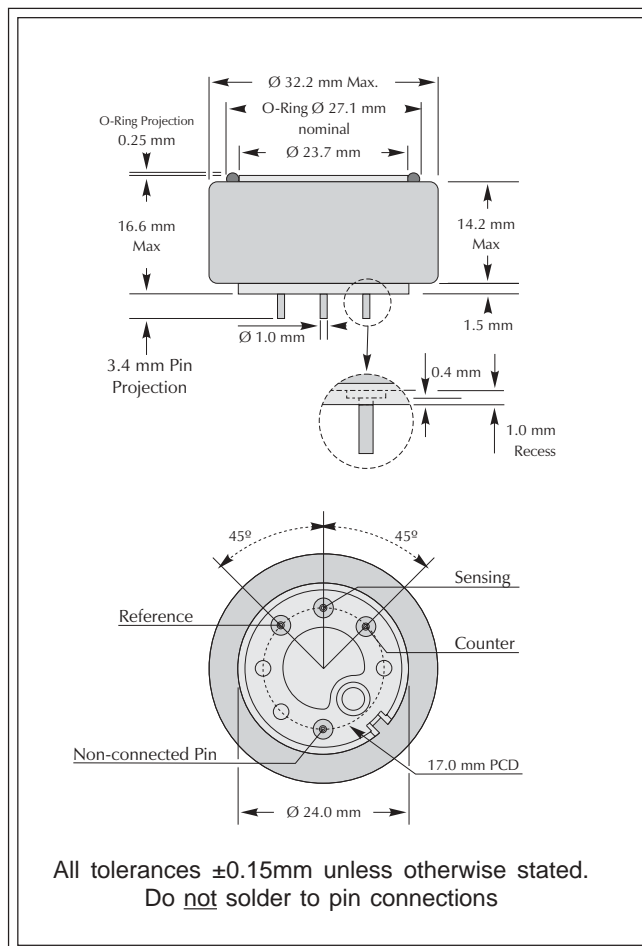




70Z CiTiceL[®]

Performance Characteristics

Nominal Range	0-2ppm
Maximum Overload	5ppm
Expected Operating Life	Two years in air
Output Signal	7.2 ± 2.3 µA/ppm
Resolution	20ppb
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T₉₀ Response Time	≤150 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	0 to +120ppb equivalent
Maximum Baseline Shift (+20°C to +40°C)	+36ppb equivalent
Long Term Output Drift	<4% signal loss/month
Recommended Load Resistor	33Ω
Bias Voltage	Not required
Repeatability	5% of signal
Output Linearity	Linear



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 Storage Temperature	0-20°C
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.



Temperature Dependence

The output of a CiTiceL can vary with temperature. A programme of data acquisition is currently underway at City Technology to establish a statistically based relationship for 7OZ sensors. For applications where accurate data is required please contact City Technology.

Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7OZ 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>7OZ</u>	<u>Gas</u>	<u>Conc.</u>	<u>7OZ</u>
Carbon monoxide:	300ppm	0ppm	Chlorine:	1ppm	<1ppm
Hydrogen sulphide:	15ppm	≈2ppm	Hydrogen:	100ppm	0ppm
Sulphur dioxide:	5ppm	0ppm	Hydrogen cyanide:	10ppm	0ppm
Nitric oxide:	35ppm	0ppm	Hydrogen chloride:	5ppm	0ppm
Nitrogen dioxide:	5ppm	≈3.5ppm	Ethylene:	100ppm	0ppm

For information on other possible cross-interferents please 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.