

Ozone CiTiceL[®] Specification

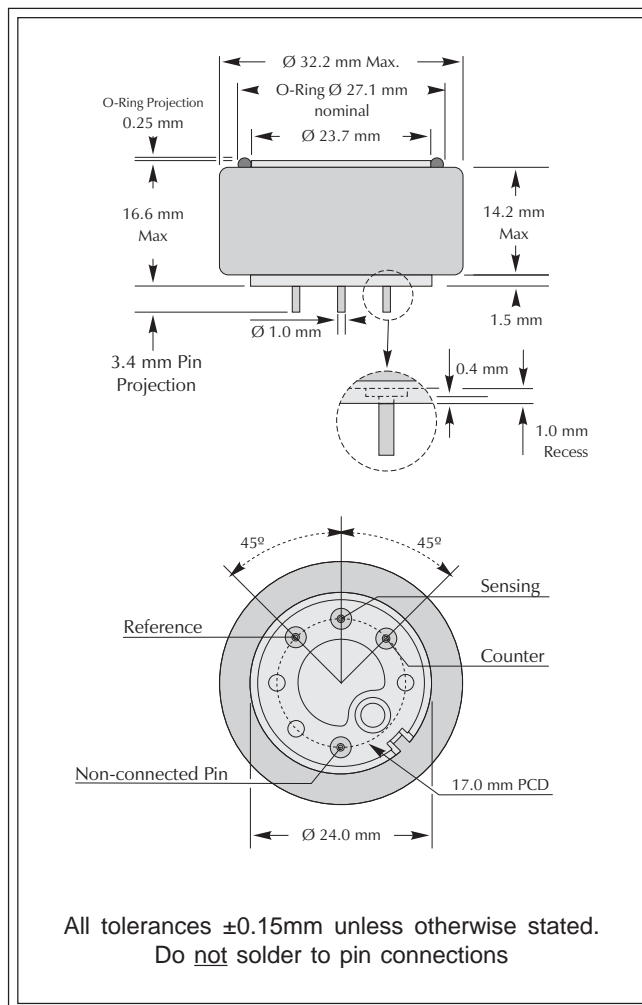


703 CiTiceL[®]

Performance Characteristics

Nominal Range	0-2ppm
Maximum Overload	5ppm
Expected Operating Life	Two years in air
Output Signal	6.0±2.0µA/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 +250ppb equivalent
Maximum Baseline Shift (+20°C to +40°C)	+100ppb equivalent
Long Term Output Drift	No Data
Recommended Load Resistor	33Ω
Bias Voltage	Not required
Repeatability	No Data
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.

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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 7O3 sensors.

Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7O3 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>7O3</u>	<u>Gas</u>	<u>Conc.</u>	<u>7O3</u>
Carbon monoxide:	300ppm	≈0.2ppm	Chlorine:	1ppm	≈0.6ppm
Hydrogen sulphide:	15ppm	≈10ppm	Hydrogen:	No Data	No Data
Sulphur dioxide:	5ppm	≈2.5ppm	Hydrogen cyanide:	No Data	No Data
Nitric oxide:	No Data	No Data	Hydrogen chloride:	No Data	No Data
Nitrogen dioxide:	5ppm	≈4ppm	Ethylene:	No Data	No Data

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.