

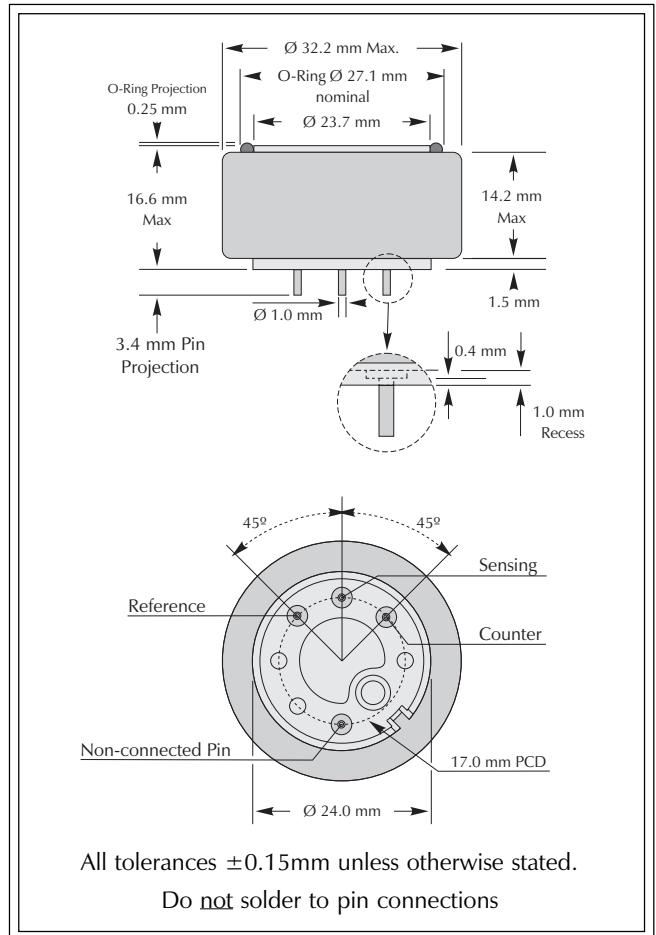


Ethylene Oxide CiTiceL[®] Specification

7ETO Compact CiTiceL[®]

Performance Characteristics

Nominal Range	0-20ppm
Maximum Overload	100ppm
Expected Operating Life	Two years in air
Output Signal	2.75 ± 0.5 μA/ppm
Resolution	0.1ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T₉₀ Response Time	<140 seconds
Relative Humidity Range	15% to 90% non-condensing
Typical Baseline Range (pure air)	0 to +1ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	2ppm equivalent
Long Term Output Drift	<5% signal loss/year
Recommended Load Resistor	10Ω
Bias Voltage	+300mV
Repeatability	1% of signal
Output Linearity	Linear



N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

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

Physical Characteristics

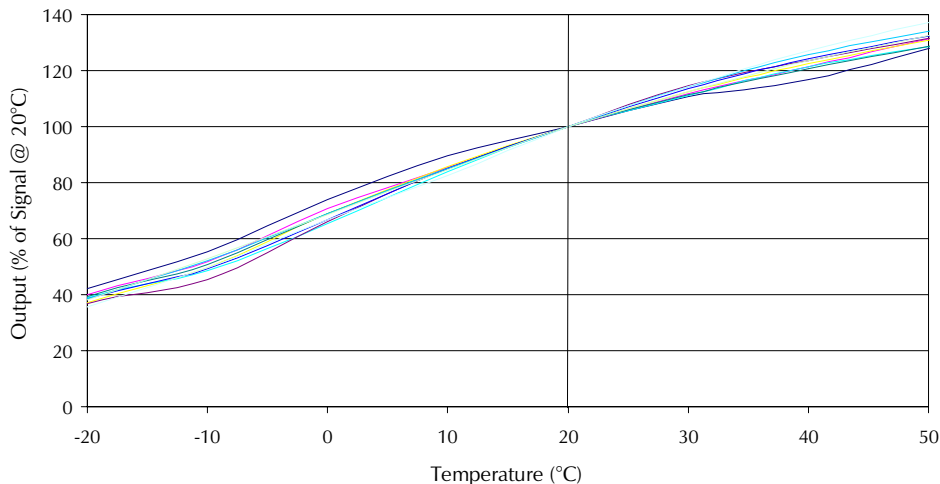
Weight	17g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	12 months from date of despatch

Also available with bias board - 7BETO

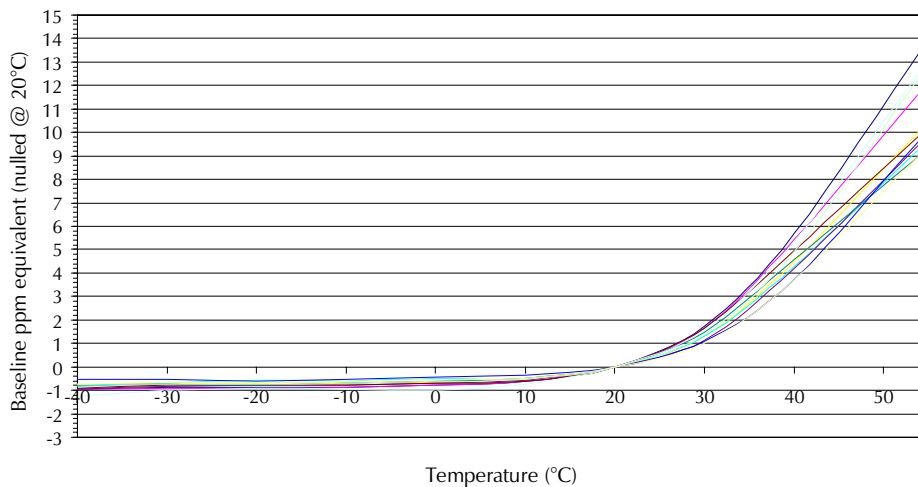
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7ETO Ethylene oxide CiTiceL - Output vs Temperature



7ETO Ethylene Oxide - Baseline vs Temperature



Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7ETO CiTiceLs have been tested with a number of commonly cross-interfering gases and the results are given below (relevant to safety, e.g. TLV levels).

Ethanol	≈55%	Methyl-ethyl-ketone	≈10%
Toluene	≈20%	Carbon monoxide	≈40%

For information on other possible cross-interferents please contact City Technology.

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