

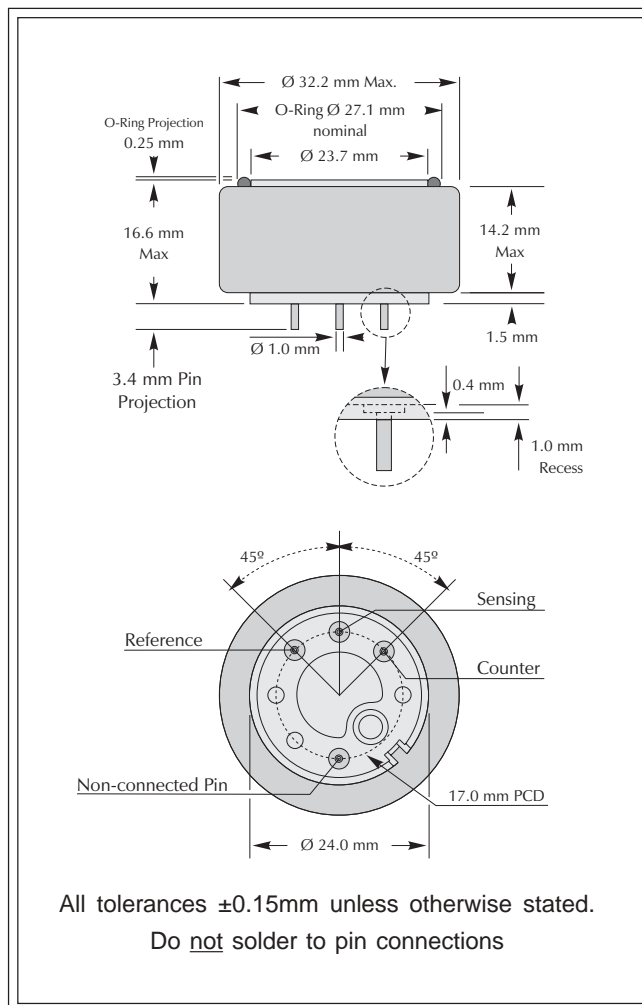


# 7ETO CiTiceL<sup>®</sup>

## Performance Characteristics

<b>Nominal Range</b>	0-20ppm
<b>Maximum Overload</b>	100ppm
<b>Expected Operating Life</b>	Two years in air
<b>Output Signal</b>	2.25 ± 0.65 µA/ppm
<b>Resolution</b>	0.1ppm
<b>Temperature Range</b>	-20°C to +50°C
<b>Pressure Range</b>	Atmospheric ± 10%
<b>Pressure Coefficient</b>	No data
<b>T<sub>90</sub> Response Time</b>	<140 seconds
<b>Relative Humidity Range</b>	15% to 90% non-condensing
<b>Typical Baseline Range (pure air)</b>	0 to +1ppm equivalent
<b>Maximum Zero Shift (+20°C to +40°C)</b>	2ppm equivalent
<b>Long Term Output Drift</b>	<5% signal loss/year
<b>Recommended Load Resistor</b>	10Ω
<b>Bias Voltage</b>	+300mV
<b>Repeatability</b>	1% of signal
<b>Output Linearity</b>	Linear

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



## Physical Characteristics

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

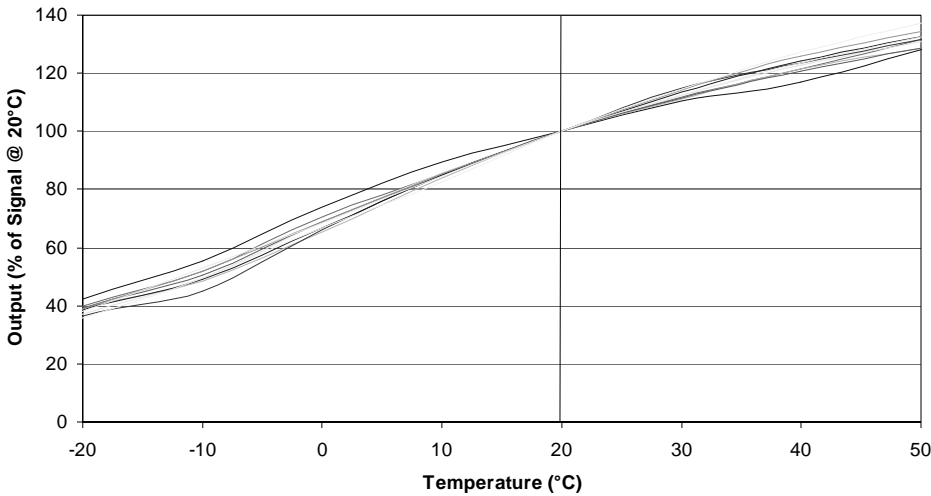
**IMPORTANT NOTE:** Connection should be made via PCB sockets only. Soldering to the pins will render your warranty void.

**Also available with bias board - 7BETO**

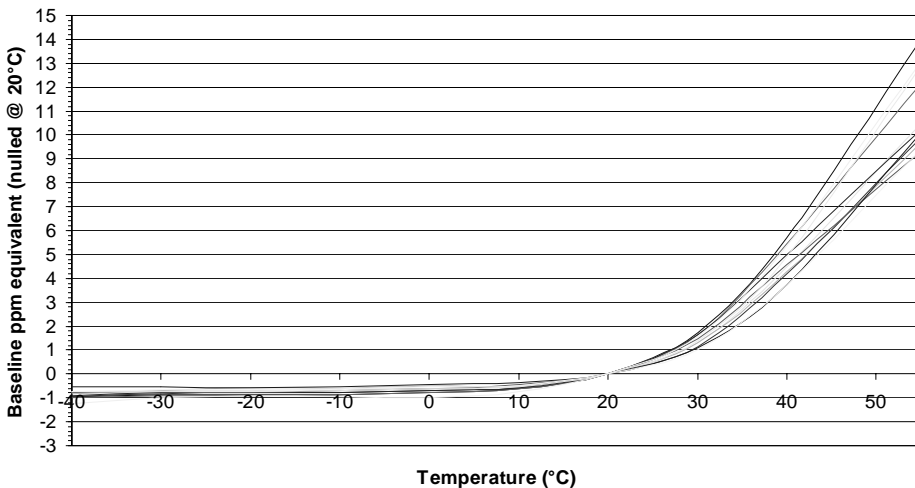
# Ethylene Oxide CiTiceL<sup>®</sup> Specification



7ETO Ethylene oxide CiTiceL - Output vs Temperature



7ETO Ethylene Oxide - Baseline vs Temperature



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## 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).

<b>Ethanol</b>	≈55%	<b>Methyl-ethyl-ketone</b>	≈10%
<b>Toluene</b>	≈20%	<b>Carbon monoxide</b>	≈40%

\*\*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.