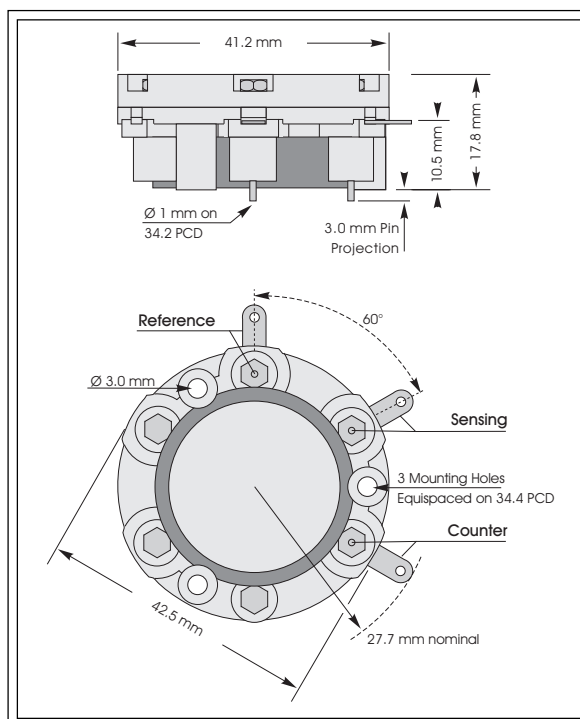


Carbon monoxide CiTiceL[®] Specification**3EU CiTiceL****Performance Characteristics**

Nominal Range	0-1000ppm
Maximum Overload	2000ppm
Expected Operating Life	Two years in air
Output Signal	$0.075 \pm 0.010 \mu\text{A/ppm}$
Resolution at 20°C	0.5ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric $\pm 10\%$
Pressure Coefficient	$0.02 \pm 0.008\%$ signal/mbar
T ₉₀ Response Time	<35 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	-1 to +3ppm equivalent
Maximum Zero Shift (-20 to +40C)	2ppm equivalent
Long Term Output Drift	<5% signal loss/year
Recommended Load Resistor	10Ω
Bias Voltage	Not required
Repeatability	1% of signal
Output Linearity	Linear
Storage Life	Six months in CTL container
Weight	Approx 22g
Position Sensitivity	None
Recommended Storage Temp.	0-20°C
Warranty Period	12 months from date of despatch



All tolerances $\pm 0.15\text{mm}$ unless otherwise stated.
 Sensor shown with side tags and gold pins.
 Do not solder to pin connections.

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

Cross-Sensitivity Data

Gas	CO	H ₂ S	SO ₂	NO	NO ₂	Cl ₂	H ₂	HCN	HCl	C ₂ H ₄
%	100	≈350	≈65	≈25	≈-60	≈-40	<60	≈40	≈5	≈90

This data is expressed as a percentage of primary sensitivity (e.g. CO = 100%)

Doc. Ref.: 3EU.p65
 Issue 1.2 Aug 12, 1999



Every effort has been made to ensure the accuracy of this document at the time of printing. In accordance with the company's policy of continued product improvement City Technology Limited reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale. The products are always subject to a programme of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control of City Technology Limited, we cannot give any warranty as to the relevance of these particulars to an application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application. Performance characteristics of this data sheet outline the performance of newly supplied sensors. Output signal may drift below the lower limit over time.