



5MF CiTiceL[®]

Performance Characteristics

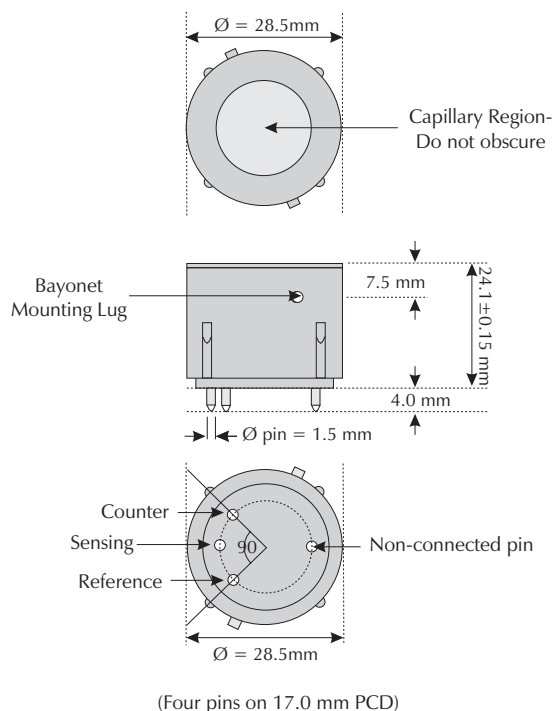
Nominal Range	0-40,000ppm
Maximum Overload	0-100,000ppm
Inboard Filter	To remove acid gases
Filter Life	> 400,000 ppm hours (1000ppm NO @ 200ml/min)
Expected Operating Life	Three years in air
Output Signal	$0.010 \pm 0.004 \mu\text{A/ppm}$
Resolution	10ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric $\pm 10\%$
Pressure Coefficient	$0.007 \pm 0.003 \%$ signal/mBar
T₉₀ Response Time	<40 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	-30 to +100ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	-100ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	10 Ω
Bias Voltage	Not required
Repeatability	1% of signal
Output Linearity	Linear
Colour Coding	Red

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

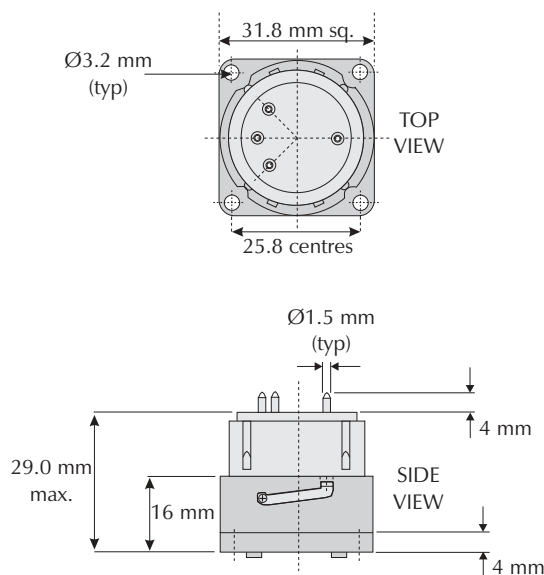
Physical Characteristics

Weight	12.5g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	12 months from date of despatch

Outline Sensor Dimensions



With Bayonet Fitting

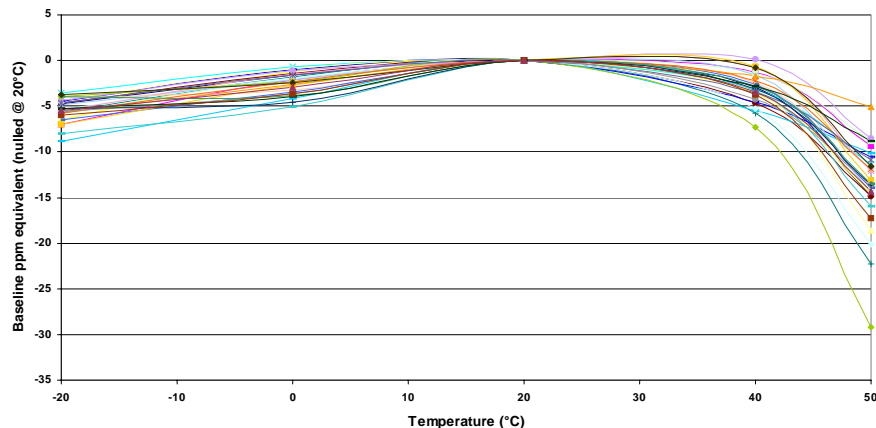


All tolerances $\pm 0.15\text{mm}$ unless otherwise stated

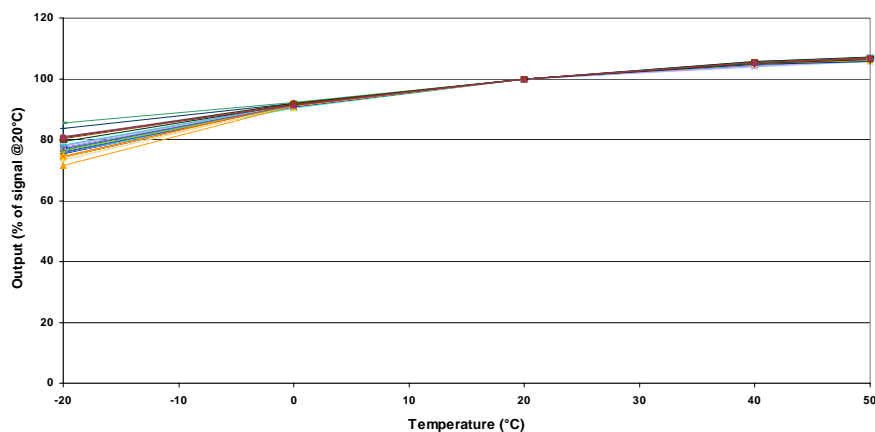
Carbon Monoxide CiTiceL[®] Specification



5MF CiTiceL - Typical Baseline vs Temperature



5MF CiTiceL - Typical Output vs Temperature



Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. The table below shows the typical response of 5MF sensors to a number of common cross-interfering gases. The figures are expressed as a percentage of the primary sensitivity (i.e. carbon monoxide = 100%).

<u>Gas</u>	<u>Response</u>	<u>Gas</u>	<u>Response</u>
Hydrogen sulphide:	0	Hydrogen:	<60 ¹
Sulphur dioxide:	0	Hydrogen chloride:	0
Nitric oxide:	0	Ethylene:	<10
Nitrogen dioxide:	0	** For details of other possible cross-interfering gases contact City Technology.**	

¹For applications where a hydrogen compensated output is required the A5F CiTiceL should be used

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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.