

Carbon Monoxide CiTiceL[®] Specification



A5F CiTiceL[®]

Performance Characteristics

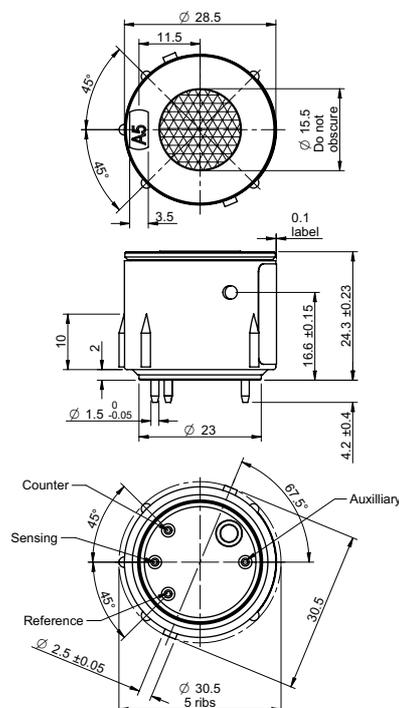
Nominal Range	0-2000ppm
Maximum Overload	4000ppm
Internal Filter	To remove acid gases
Internal Filter Life	>100,000ppm hours (1000ppm NO at 200ml/min)
Auxiliary Electrode	To compensate for maximum 2000ppm H ₂ cross-interference
Expected Operating Life	Three years in air
Output Signal	0.075 ± 0.025 μA/ppm
Resolution	1ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	0.010% signal/mbar
T₉₀ Response Time	< 40 seconds
Relative Humidity Range	15 to 90 % non-condensing
Typical Net Baseline Range (pure air)	-2 to +17ppm equivalent
Maximum Net Zero Shift (+20°C to +40°C)	5ppm CO equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	10Ω
Bias Voltage	0mV
Repeatability	<1% of signal
Output Linearity	Linear

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

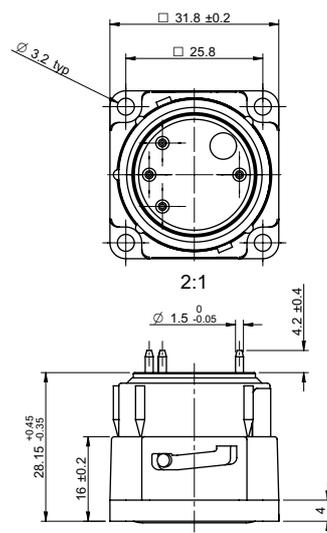
Physical Characteristics

Colour Coding	Red
Weight	13g
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

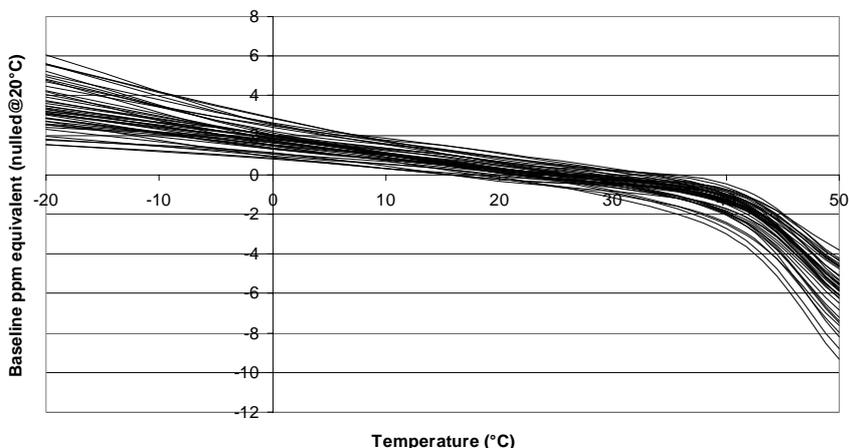


All tolerances ±0.15mm unless otherwise stated

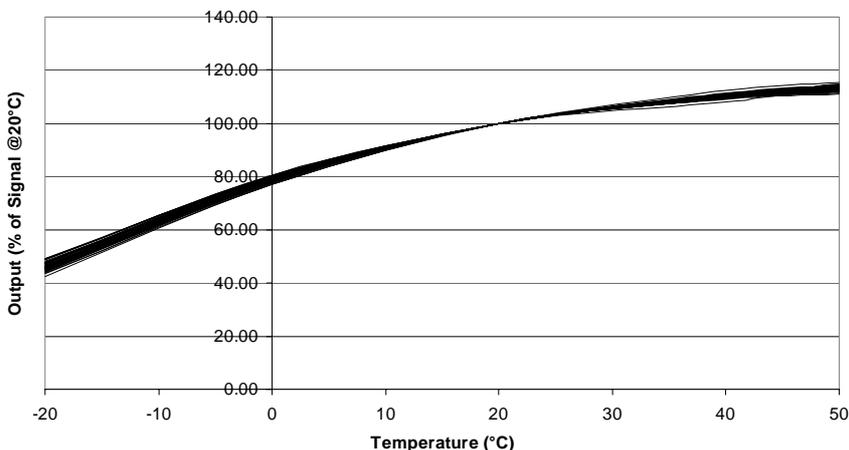
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A5F CiTiceL - Typical Baseline vs Temperature



A5F 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 A5F sensors to a number of common cross-interfering gases. The figures are expressed as a percentage of the primary sensitivity (i.e. nitric oxide = 100%).

<u>Gas</u>	<u>Response</u>	<u>Gas</u>	<u>Response</u>
Hydrogen sulphide:	0	Hydrogen:	<1 (see note)
Sulphur dioxide:	0	Hydrogen chloride:	5
Nitric oxide:	0	Nitrogen dioxide:	0

** For details of other possible cross-interfering gases contact City Technology.**
Note: Cross-sensitivity to H2 <1% after compensation

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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.