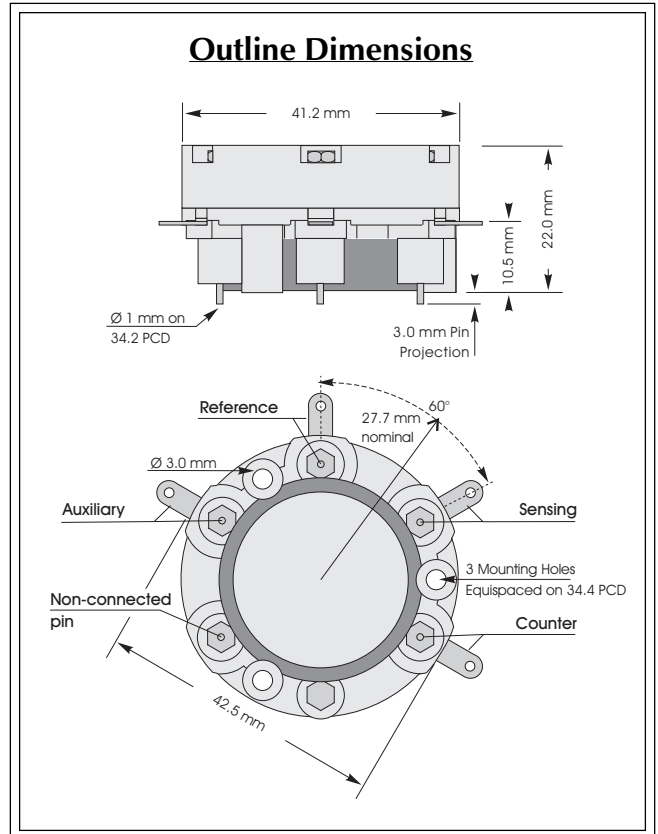




## A3E/D CiTiceL

### Performance Characteristics

<b>Nominal Range</b>	0-2000ppm
<b>Maximum Overload</b>	4000ppm
<b>Inboard Filter</b>	'Double size' filter to remove acid gases from flue stream
<b>Auxiliary Electrode</b>	To compensate for H <sub>2</sub> cross-interference
<b>Expected Operating Life</b>	Two years in air
<b>Output Signal</b>	0.075 ± 0.025 µA/ppm
<b>Resolution</b>	1ppm
<b>Temperature Range</b>	-20°C to +50°C
<b>Pressure Range</b>	Atmospheric ± 10%
<b>Pressure Coefficient</b>	0.02% signal/mBar
<b>T<sub>90</sub> Response Time</b>	< 38 seconds
<b>Relative Humidity Range</b>	15 to 90% non-condensing
<b>Typical Baseline Range (pure air)</b>	-2 to +17ppm equivalent
<b>Maximum Zero Shift (+20°C to +40°C)</b>	No data
<b>Long Term Output Drift</b>	< 2% signal loss/month
<b>Recommended Load Resistor</b>	10 Ω
<b>Bias Voltage</b>	0 or +250mV (See page tox-10)
<b>Repeatability</b>	< 1% of signal
<b>Output Linearity</b>	Linear



All tolerances ±0.15mm unless otherwise stated  
 Note: Do not solder to pin connections

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

### Physical Characteristics

<b>Weight</b>	31g
<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

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## Temperature Dependence

The output of a CiTiceL can vary with temperature. As the operation of the A3E/D CiTiceL is different to that of standard CiTiceLs, the temperature behaviour of these sensors is very different. Further details can be obtained from City Technology.

## 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 A3E/D 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%).

<b>Gas</b>	<b>Response</b>	<b>Gas</b>	<b>Response</b>
<b>Hydrogen sulphide:</b>	0	<b>Hydrogen:</b>	<1 (see note)
<b>Sulphur dioxide:</b>	0	<b>Hydrogen chloride:</b>	0
<b>Nitric oxide:</b>	0	<b>Ethylene:</b>	≈35
<b>Nitrogen dioxide:</b>	0	** For details of other possible cross-interfering gases contact City Technology.**	

**Note:** Cross-sensitivity to H<sub>2</sub> <1% after compensation

## Ordering Information

The A3E/D Carbon Monoxide CiTiceL is available with both PCB pins and side tags only.

**Type A3E/D:- With side tag and PCB pin connections - A3E/D**

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