



# A5H CiTiceL<sup>®</sup>

## Performance Characteristics

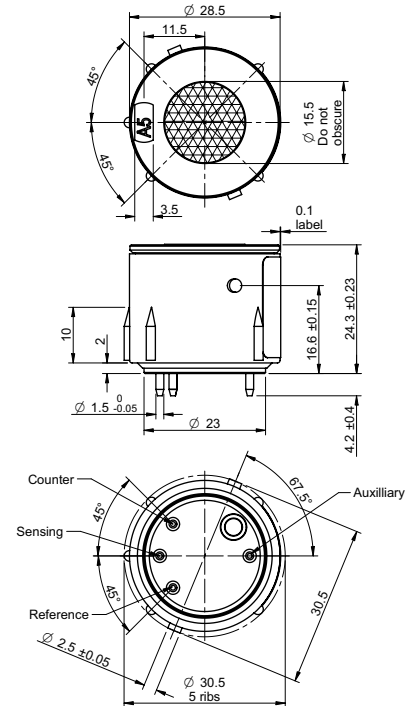
<b>Nominal Range</b>	0-100ppm
<b>Maximum Overload</b>	4000ppm
<b>Replaceable Filter Unit</b>	To remove acid gases
<b>Auxiliary Electrode</b>	To compensate for H <sub>2</sub> cross-interference
<b>Expected Operating Life</b>	Two years
<b>Output Signal</b>	0.125±0.025 µA/ppm
<b>Resolution</b>	0.1ppm
<b>Temperature Range</b>	0°C to +45°C
<b>Pressure Range</b>	Ambient ± 10%
<b>Pressure Coefficient</b>	<0.02% signal/mBar
<b>T<sub>90</sub> Response Time</b>	To be determined
<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>	<10% signal loss/year
<b>Recommended Load Resistor</b>	10 Ω
<b>Bias Voltage</b>	0 or +250mV
<b>Repeatability</b>	±1%
<b>Output Linearity</b>	Linear
<b>Colour Coding</b>	White

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

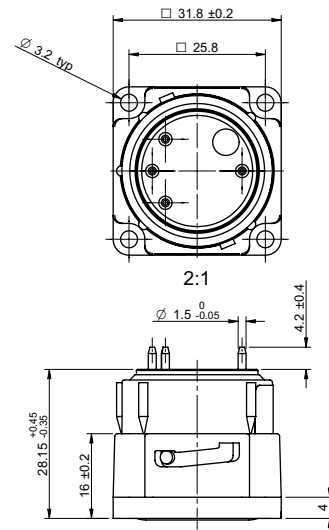
## Physical Characteristics

<b>Weight</b>	13 g
<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 moths from date of despatch

## Outline Sensor Dimensions



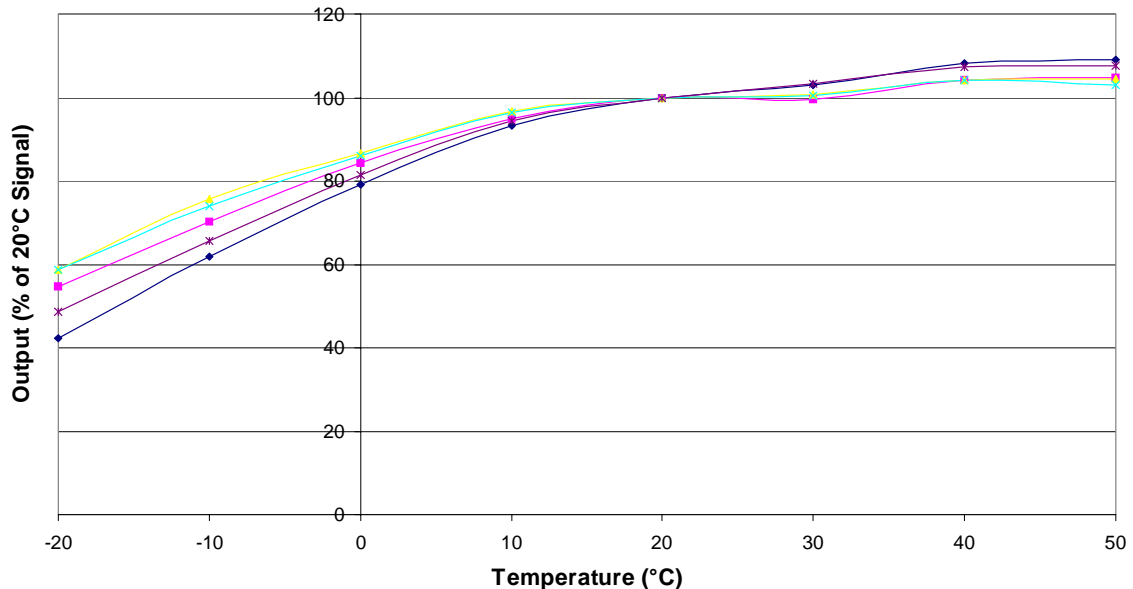
## With Bayonet Fitting



All tolerances ±0.15mm unless otherwise stated



## A5H CiTiceL - Temperature Coefficient Data



## 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 A5H 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:	<1 (see note)
Sulphur dioxide:	0	Hydrogen chloride:	0
Nitric oxide:	0	Ethylene:	≈35
Nitrogen dioxide:	0	** For details of other possible cross-interfering gases contact City Technology.**	

**Note:** Cross-sensitivity to H<sub>2</sub> <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.