

**Performance Characteristics**

<b>Measuring Range</b>	0-500ppm
<b>Sensitivity Range</b>	35nA/ppm ± 15nA/ppm
<b>Expected Operating Life</b>	>24 months in air*
<b>Zero Current at 20°C</b>	<± 100nA, typically 40nA
<b>Response Time at 20°C</b>	t50 <30s calculated from 5min. exposure time t90 <90s calculated from 5min. exposure time
<b>Temperature Range</b>	-20°C to +40°C
<b>Bias Potential</b>	0mV
<b>Linearity</b>	<10% full scale
<b>Long Term Sensitivity Drift</b>	<5% per 6 months
<b>Pressure Coefficient</b>	<0.03% signal/mBar
<b>Operating Humidity</b>	15-90% RH non-condensing
<b>Effect of Humidity</b>	No effect on zero reading during abrupt changes of RH
<b>Recommended Load Resistor</b>	100Ω

\*Background concentrations of ammonia might shorten life of sensor.

**Physical Characteristics**

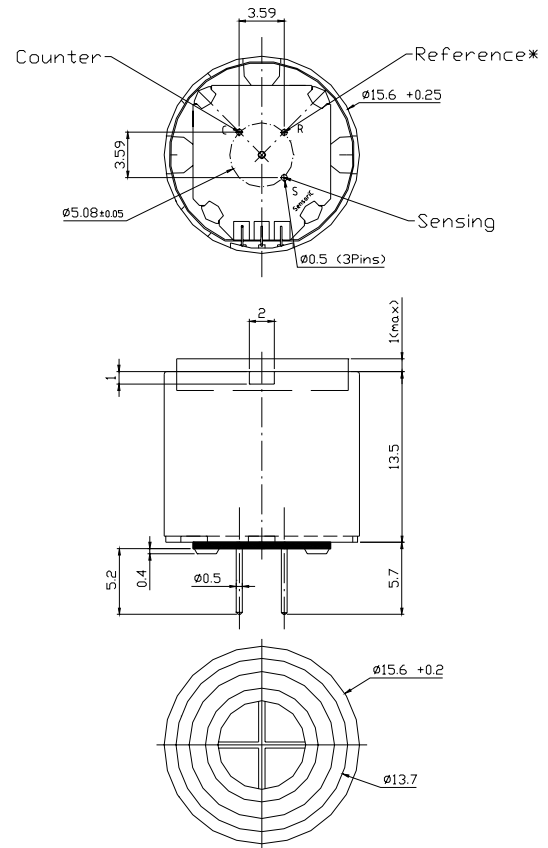
<b>Orientation Sensitivity</b>	None
<b>Storage Life</b>	4 weeks in container
<b>Recommended Storage Temperature</b>	0-20°C
<b>Warranty</b>	12 Months

**Features**

- Amperometric 3 electrode sensor cell
- Low susceptibility to abrupt changes of humidity
- No CO2 interference
- High selectivity
- 0 voltage biased operation

N.B. All technical specifications are based on conditions at 20°C, 50%RH, and 1013mBar unless otherwise noted.

**Outline Dimensions (Example Mini)**



All dimensions in mm  
All tolerances  $\pm 0.15$ mm unless otherwise stated

**Part Number Information**

Mini	1850-932-30009
Sensoric Classic	1850-932-30069
CTL4 Series Adaptation	1850-932-30049
CTL 7 Series Adaptation	1850-932-30079

Note: Dimensions available at [www.citytech.com](http://www.citytech.com) reference Sensoric applications notes.

**Typical Applications**

Portable & fixed point applications  
Monitoring of IDLH levels, General Industry,  
Chemical Industry, Food & Refrigeration Industry

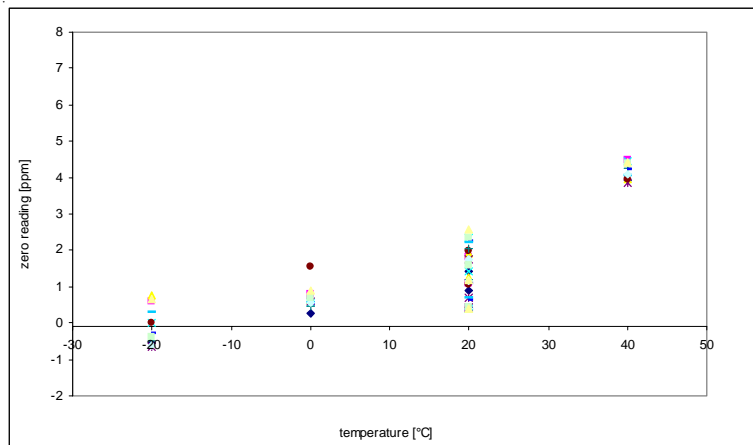
## Cross Sensitivities at 20°C

Gas	Concentration	Reading (ppm)
Alcohols (IPA)	600 ppm	No effect / <1
Carbon Monoxide	100 ppm	No effect / <1
Carbon Dioxide	5%	-4
Hydrogen	3000 ppm	No effect / <5
Hydrogen Sulfide	20 ppm	5

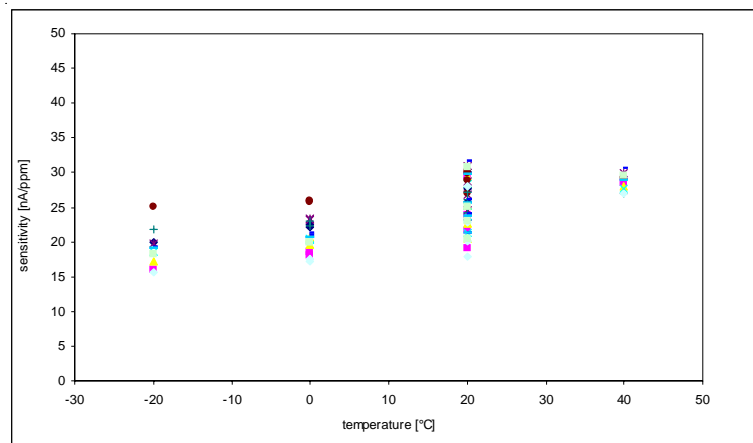
### Notes:

- 1) Interference factors may differ from sensor to sensor and with life time. It is not advisable to calibrate with interference gases.
- 2) This table does not claim to be complete. The sensor might also be sensitive to other gases.

## Zero Reading vs. Temperature



## Output vs. Temperature



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