

Performance Characteristics

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

*Background concentrations of ammonia might shorten life of sensor.

Physical Characteristics

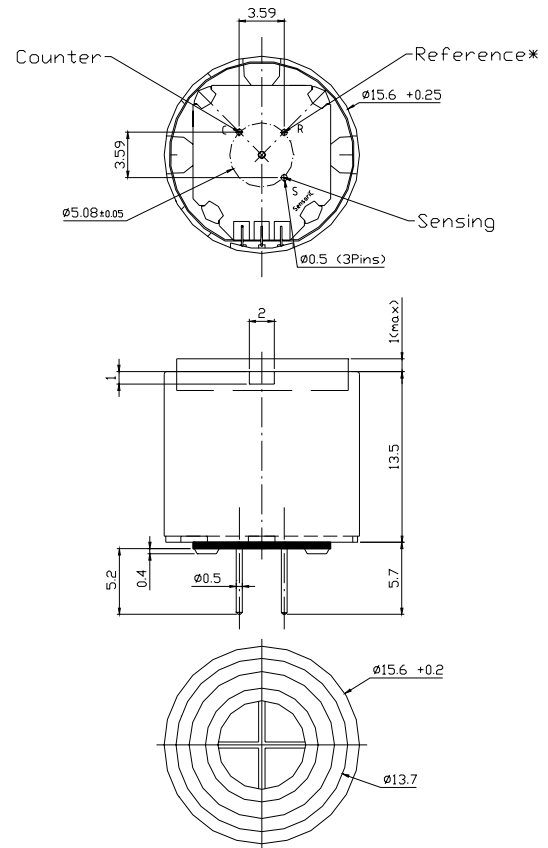
Orientation Sensitivity	None
Storage Life	4 weeks in container
Recommended Storage Temperature	0-20°C
Warranty	12 Months

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 ±0.15mm 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 reference Sensoric applications notes.

Typical Applications

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

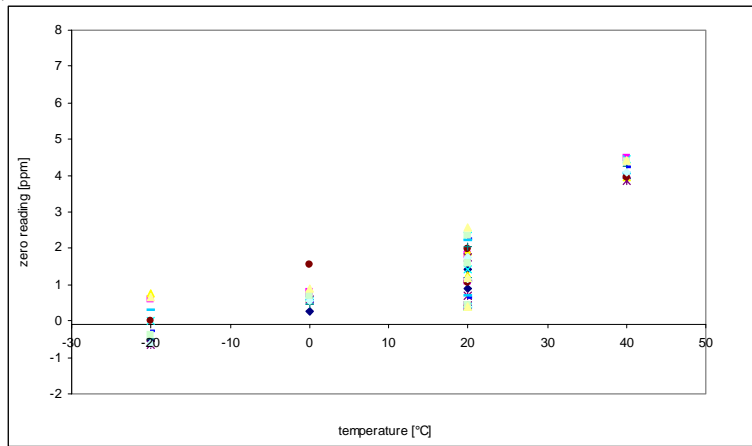
Cross Sensitivities at 20°C

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

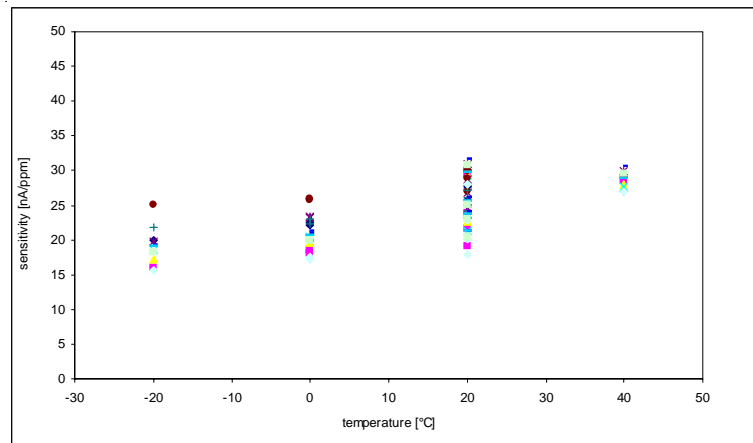
Notes:

- 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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