FEATURES

Amperometric 3 electrode sensor cell Fixed organic gel electrolyte No CO2 interference 0 volt bias operation

TYPICAL APPLICATIONS

TLV-monitoring, leakage detection Fixed point applications in cold storages & refrigeration plants only For other applications please use NH3 3E SE versions No background concentrations of ammonia & alcohols*

PART NUMBER INFORMATION

MINI	1845-031-30009
SENSORIC CLASSIC	1845-031-30069
CTL 4 series adaptation	1845-031-30049
CTL 7 series adaptation	1845-031-30079

Note:

- Background concentrations of ammonia and alcohols might shorten life time of sensor
- Exposure to high concentrations of alcohols can cause a high loss of sensor sensitivity

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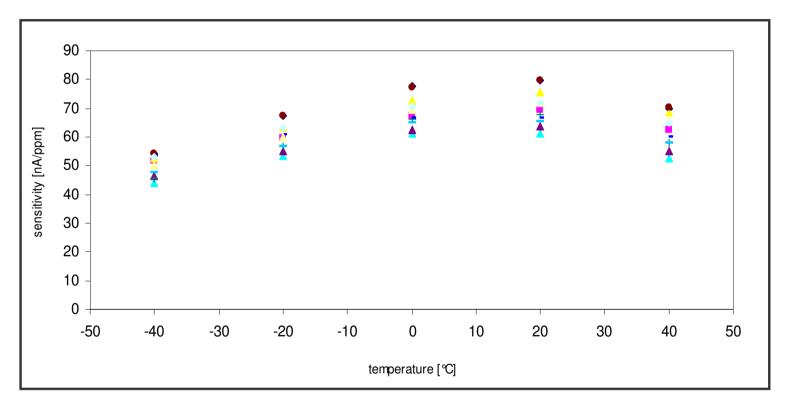
TECHNICAL SPECIFICATIONS

Measuring Range Sensitivity Range Zero Current at 20 °C Resolution at 20 °C Bias Potential Linearity	0 mV	0–100 ppm 90 nA/ppm ± 40 nA/ppm <± 150 nA <2 ppm <5% full scale	
Response Time at 20 °C t50 t90		<20 s <120 s	calculated from 5 min. exposure time calculated from 5 min. exposure time
Long Term Sensitivity Drift		<10% per 6 months	
Operation Conditions Temperature Range Humidity Range		-40 ℃ to +40 ℃ 15–90% r.H, non–condensing	
Effect of Humidity		an abrupt change of r.H. will cause a short term drift of zero reading	
Sensor Life Expectancy Warranty		> 18 months in air 12 months	

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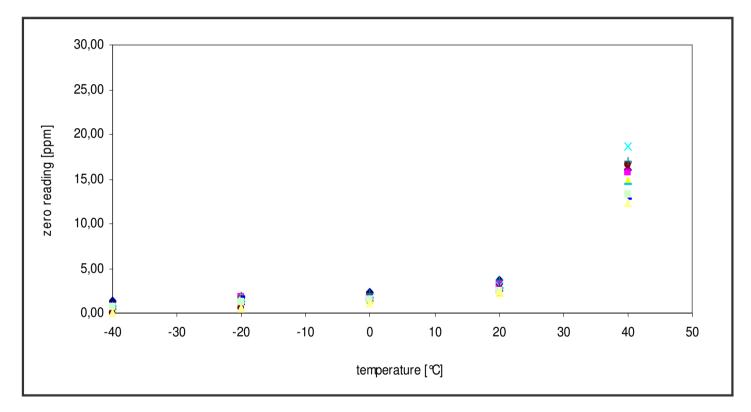
OUTPUT vs. TEMPERATURE:



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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20 °C

Alcohols1000 ppmyes / n.d.Carbon Monoxide100 ppm40Chlorine1 ppm-6Nitrogen Dioxide10 ppm-15Sulfur Dioxide20 ppmyes / n.d.Hydrogen10000 ppm1000	Gas	Concentration	Reading [ppm]
Hydrogen Sulfide 20 ppm 25	Carbon Monoxide	100 ppm	40
	Chlorine	1 ppm	-6
	Nitrogen Dioxide	10 ppm	-15
	Sulfur Dioxide	20 ppm	yes / n.d.

Notes:

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

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Safety Note

This sensor is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardize the safety of people and property.

Attention

Use of the Sensoric range sensors requires complete understanding of the instructions. Before using Sensoric range sensors please carefully read 'Application Notes' which can be found at www.citytech.com under the heading '*Support' -> 'Application Notes' -> 'Sensoric'*

Product Safety Data Sheets (PSDS) can be obtained at <u>www.citytech.com</u> under the heading '*Support' -> 'Product Safety Datasheets'*

For further assistance on sensor selection and use, please contact a member of the Technical Sales team.

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