Ammonia

SensoriC NH3 3E 100



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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 No background concentrations of ammonia *

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 might shorten life time of sensor .

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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 ± <± 150 nA <2 ppm <5% full scal	
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 r	nonths
Operation Conditions Temperature Range Humidity Range		-40°C to +40°C 15–90% r.H, non–condensing	
Effect of Humidity		an abrupt cha reading	ange of r.H. will cause a short term drift of zero
Sensor Life Expectancy Warranty		> 18 months 12 months	in air

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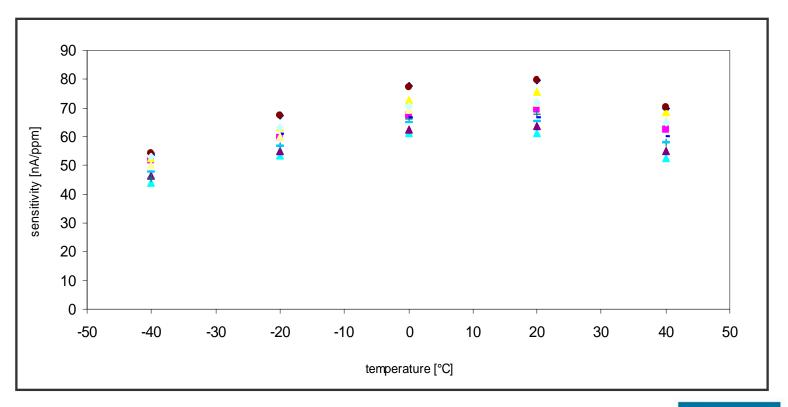
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OUTPUT vs. TEMPERATURE:



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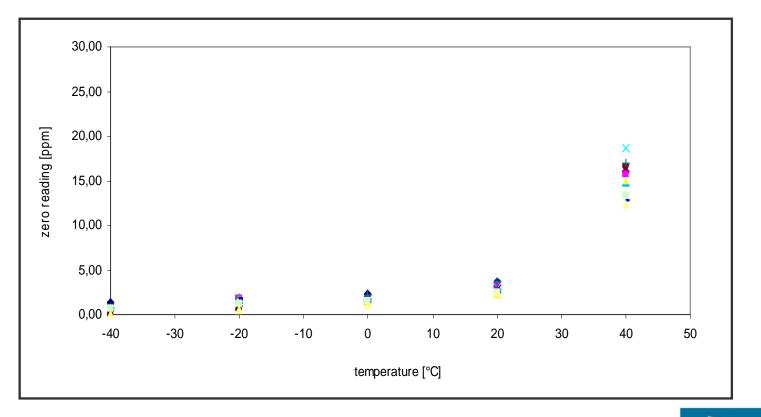
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols Carbon Monoxide Chlorine Nitrogen Dioxide Sulfur Dioxide Hydrogen	1000 ppm 100 ppm 1 ppm 10 ppm 20 ppm 10000 ppm	yes / n.d. 40 -6 0 -10 1000
Hydrogen Sulfide	20 ppm	25

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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