

Ammonia

SensoriC NH3 3E 100

中国

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Product Data Sheet

SensoriC NH3 3E 100

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

Sensoric deems the data contained herein as factual, and the opinions expressed are those of qualified experts based on the results of tests conducted. The above data can not be used as a warranty provision or representation for which Sensoric assumes legal responsibility. The data are offered solely for consideration, investigation and verification. Any use of this information is subject to federal, state and local laws and regulations.



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TECHNICAL SPECIFICATIONS

Measuring Range		0–100 ppm
Sensitivity Range		90 nA/ppm \pm 40 nA/ppm
Zero Current at 20°C		< \pm 150 nA
Resolution at 20°C		<2 ppm
Bias Potential	0 mV	
Linearity		<5% full scale
Response Time at 20°C		
t50		<20 s calculated from 5 min. exposure time
t90		<120 s calculated from 5 min. exposure time
Long Term Sensitivity Drift		<10% per 6 months
Operation Conditions		
Temperature Range		-40°C to +40°C
Humidity Range		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		> 18 months in air
Warranty		12 months

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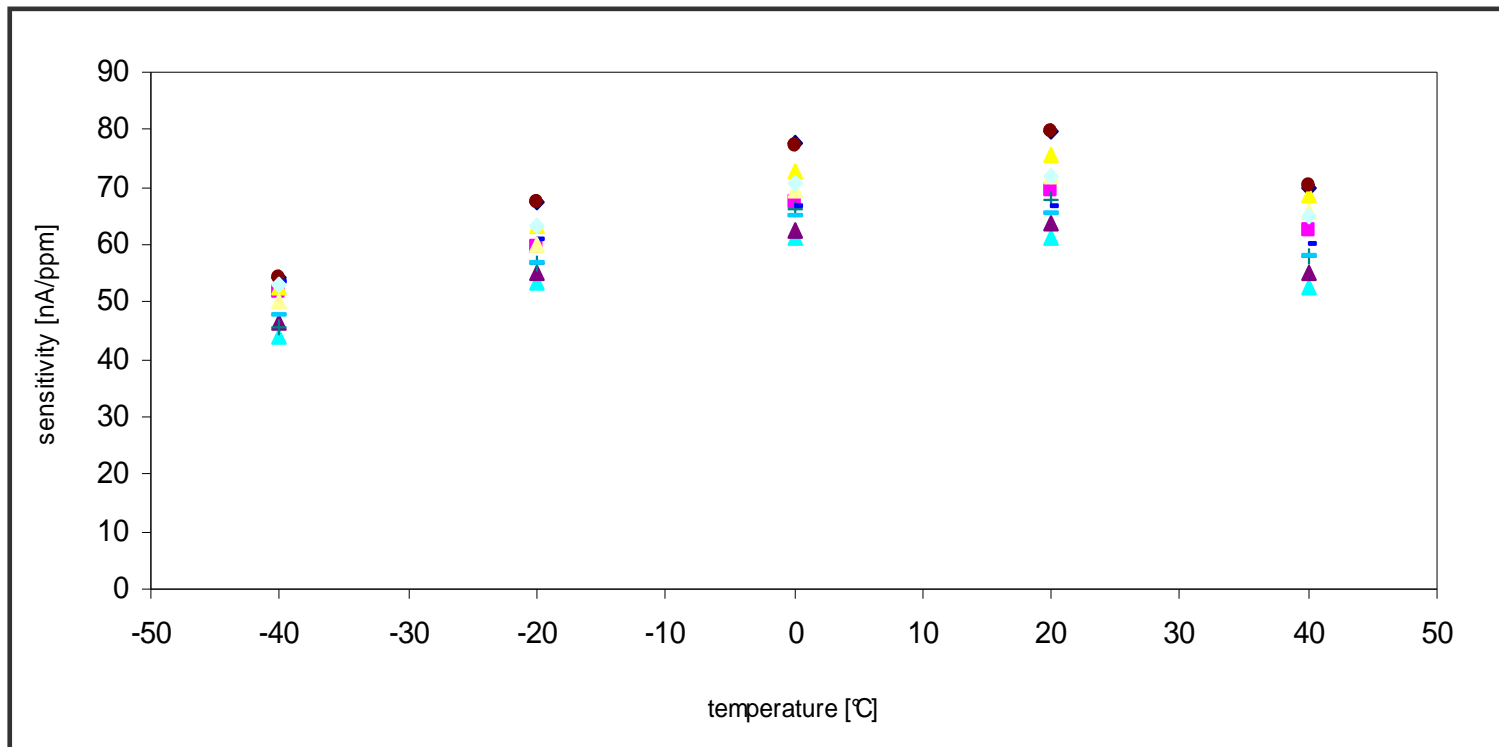


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OUTPUT vs. TEMPERATURE:



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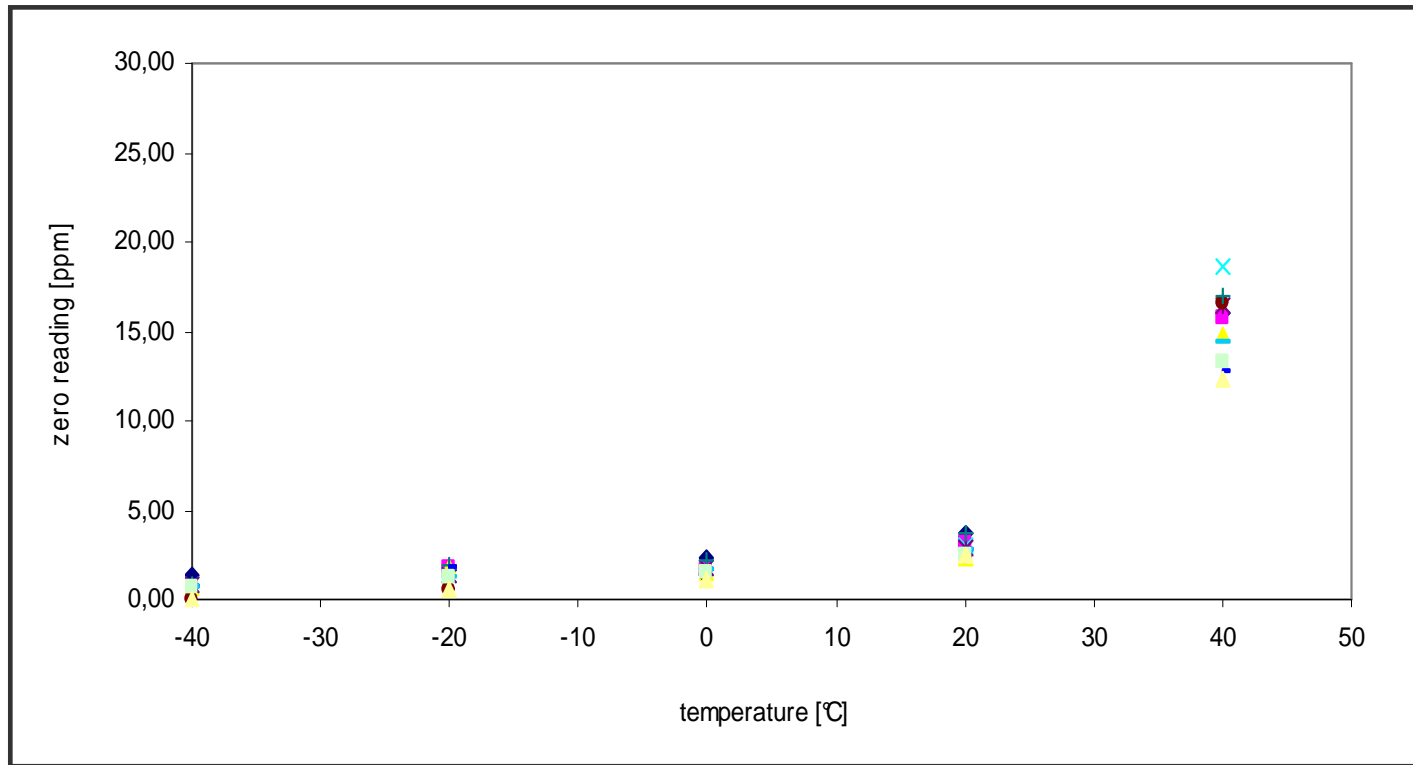


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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

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