

# Ammonia

## SensoriC NH3 3E 100



Rev. 09/2006

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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

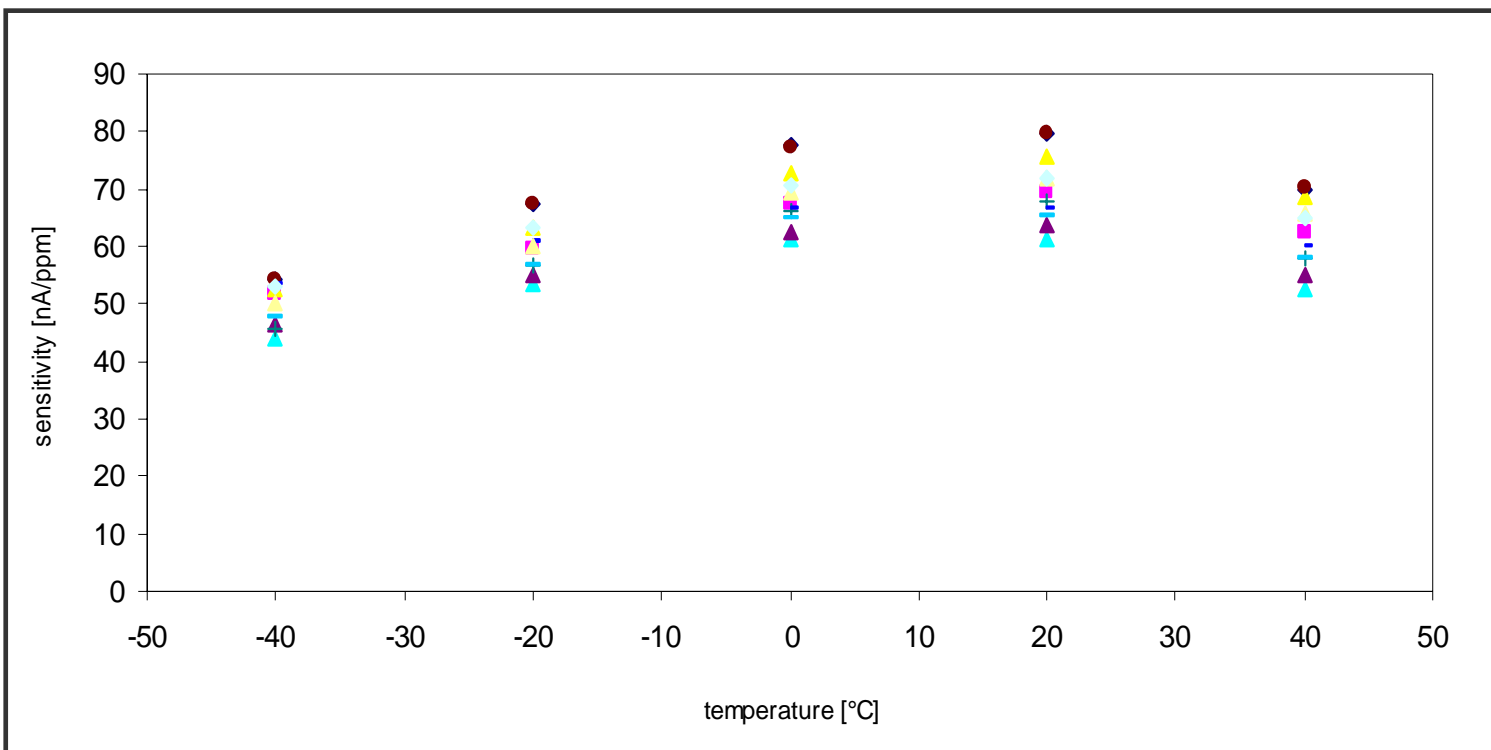
Measuring Range		0–100 ppm
Sensitivity Range		90 nA/ppm ± 40 nA/ppm
Zero Current at 20°C		<± 150 nA
Resolution at 20°C		<2 ppm
Bias Potential	0 mV	
Linearity		<5% full scale
Response Time at 20°C		
t50		<20 s      calculated from 5 min. exposure time
t90		<120 s     calculated from 5 min. exposure time
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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### OUTPUT vs. TEMPERATURE:



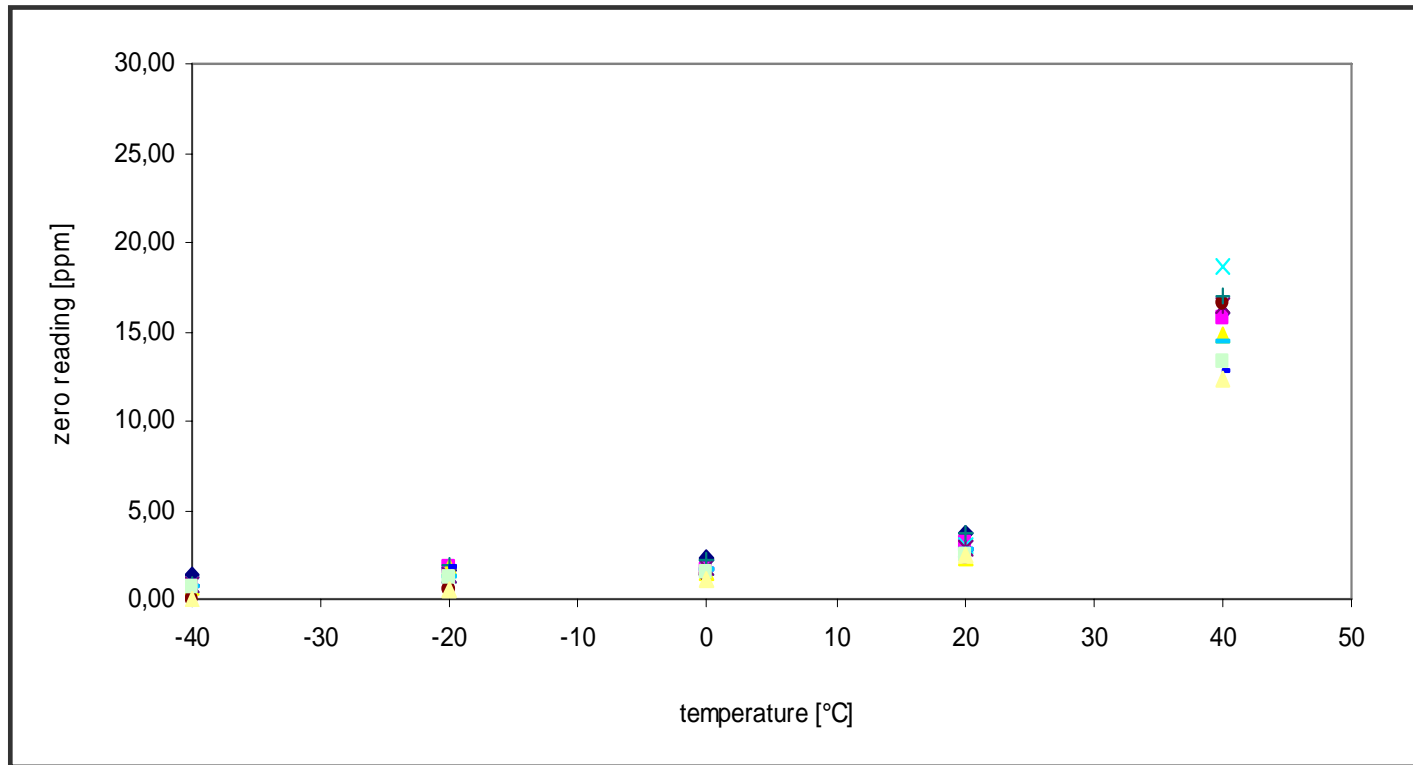
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### ZERO READING vs. TEMPERATURE:



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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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