

## Ammonia

### SensoriC NH3 3E 5000 SE

# Product Data Sheet

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### FEATURES

Amperometric 3 electrode sensor cell  
Low susceptibility to abrupt changes of humidity  
No CO2 interference  
High selectivity  
0 voltage biased operation

### TYPICAL APPLICATIONS

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

### PART NUMBER INFORMATION

MINI	1858-931-30009
SENSORIC CLASSIC	1858-931-30069
CTL4 series adaptation	1858-931-30049
CTL 7 series adaptation	1858-931-30079

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### TECHNICAL SPECIFICATIONS

Measuring Range	0–5000 ppm
Sensitivity Range	4 nA/ppm $\pm$ 2 nA/ppm
Zero Current at 20°C	< $\pm$ 100 nA, typically 40 nA
Resolution at 20°C	<50 ppm, typically 20 ppm
Bias Potential	0 mV
Linearity	<10% full scale
Response Time at 20°C	
t50	< 30 s calculated from 5 min. exposure time
t90	< 90 s calculated from 5 min. exposure time
Long Term Sensitivity Drift	<10% per 6 months
Operation Conditions	
Temperature Range	-20°C to +40°C
Humidity Range	15–90% r.H, non–condensing
Effect of Humidity	no effect on zero reading during abrupt changes of r.H.
Sensor Life Expectancy	> 24 months in air*
Warranty	12 months

Note:

\* Background concentrations of ammonia might shorten life time of sensor .

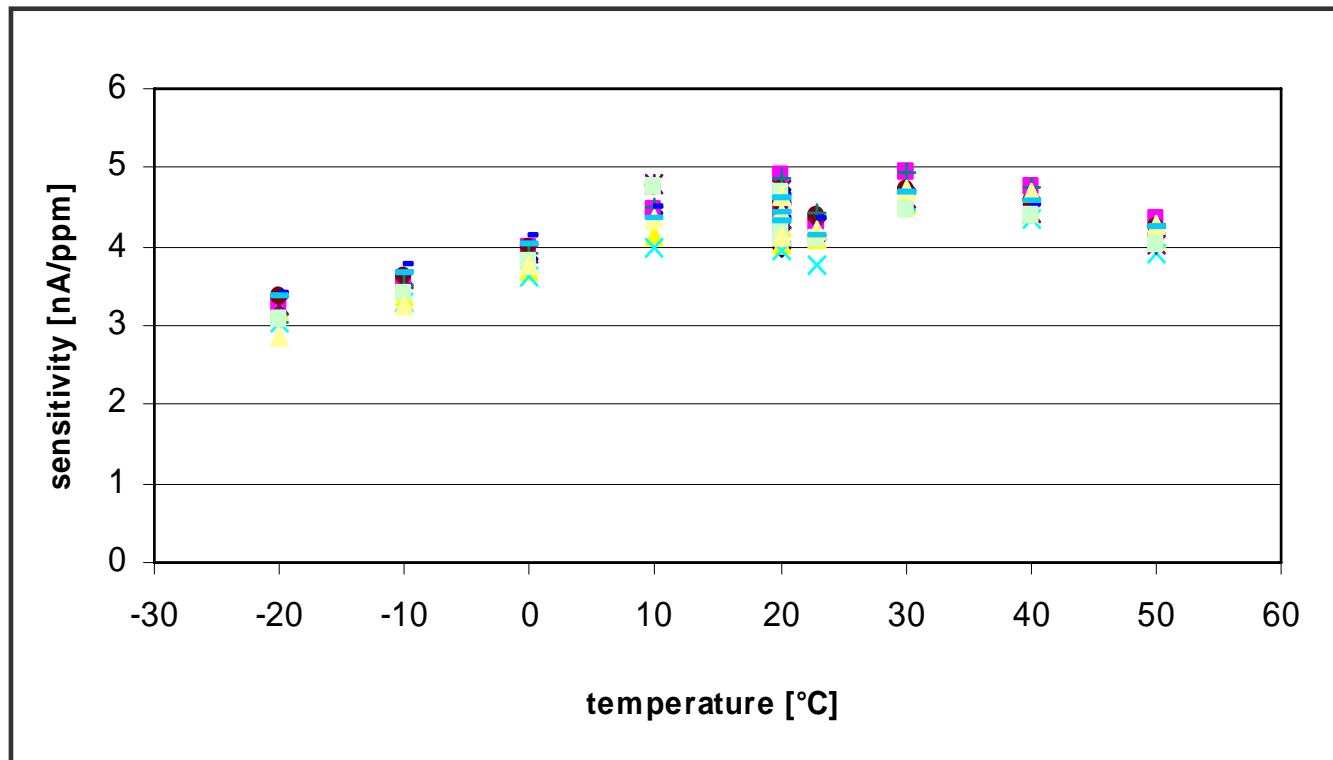
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### OUTPUT vs. TEMPERATURE:



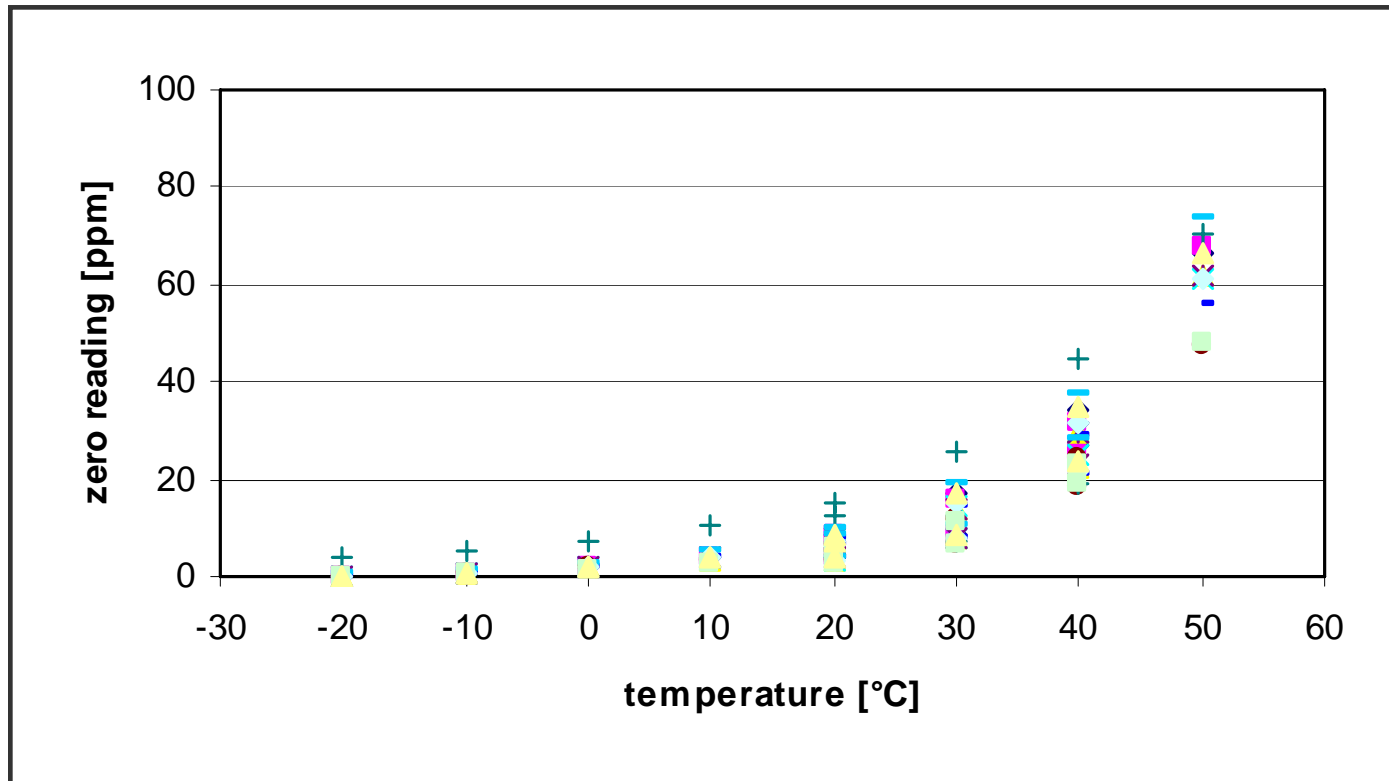
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### ZERO READING vs. TEMPERATURE:



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### CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Carbon Monoxide	100 ppm	0
Chlorine	5 ppm	0
Nitrogen Dioxide	10 ppm	0
Sulfur Dioxide	20 ppm	expected / no data
Hydrogen	3000 ppm	0
Hydrogen Sulfide	20 ppm	yes / no data

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.

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