

Ammonia

SensoriC NH3 3E 1000 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
Food industry, Semiconductor industry, Chemical Industry, General Industry

PART NUMBER INFORMATION

MINI	1854-932-30009
SENSORIC CLASSIC	1854-932-30069
CTL 4 series adaptation	1854-932-30049
CTL 7 series adaptation	1854-932-30079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–1000 ppm
Sensitivity Range	8 nA/ppm \pm 4 nA/ppm
Zero Current at 20°C	< \pm 40 nA
Resolution at 20°C	< 12 ppm
Bias Potential	0 mV
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 20 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
Sensor Life Expectancy	> 24 months in air*
Warranty	12 months

Note:

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

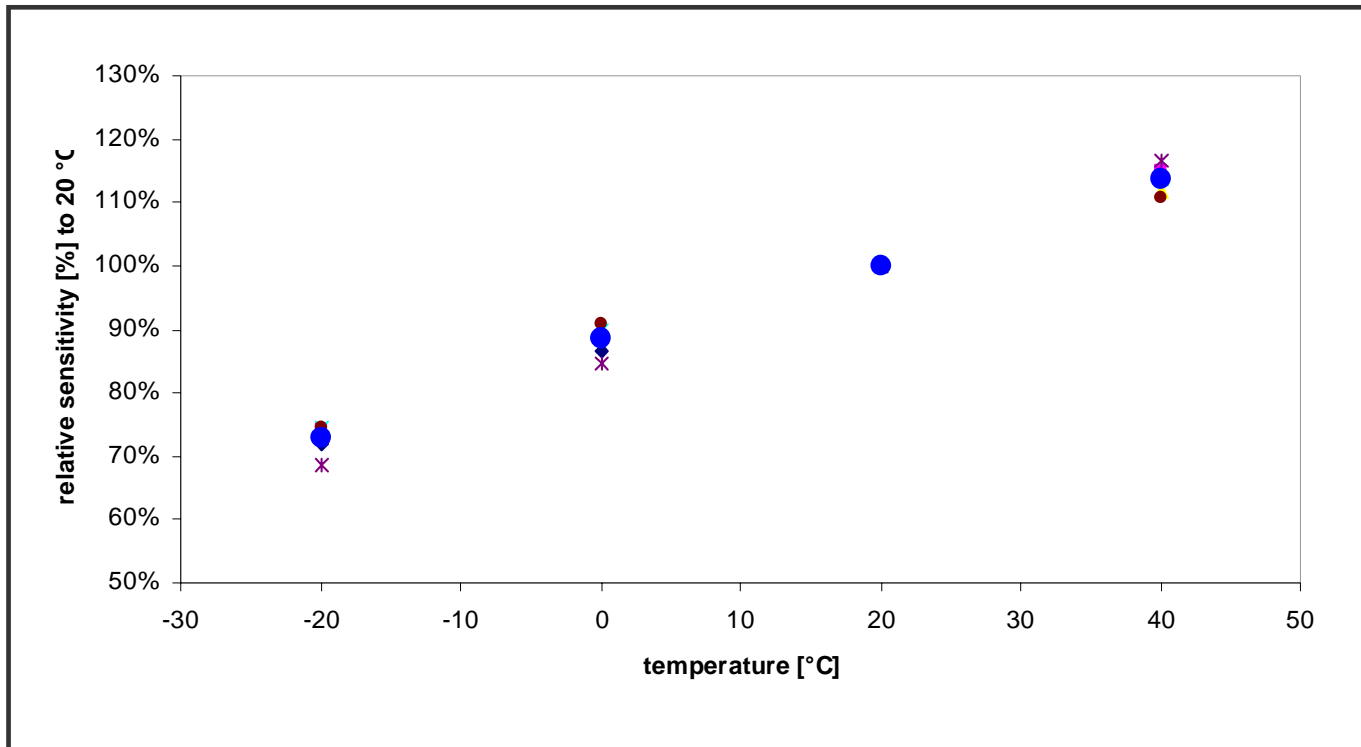
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OUTPUT vs. TEMPERATURE:



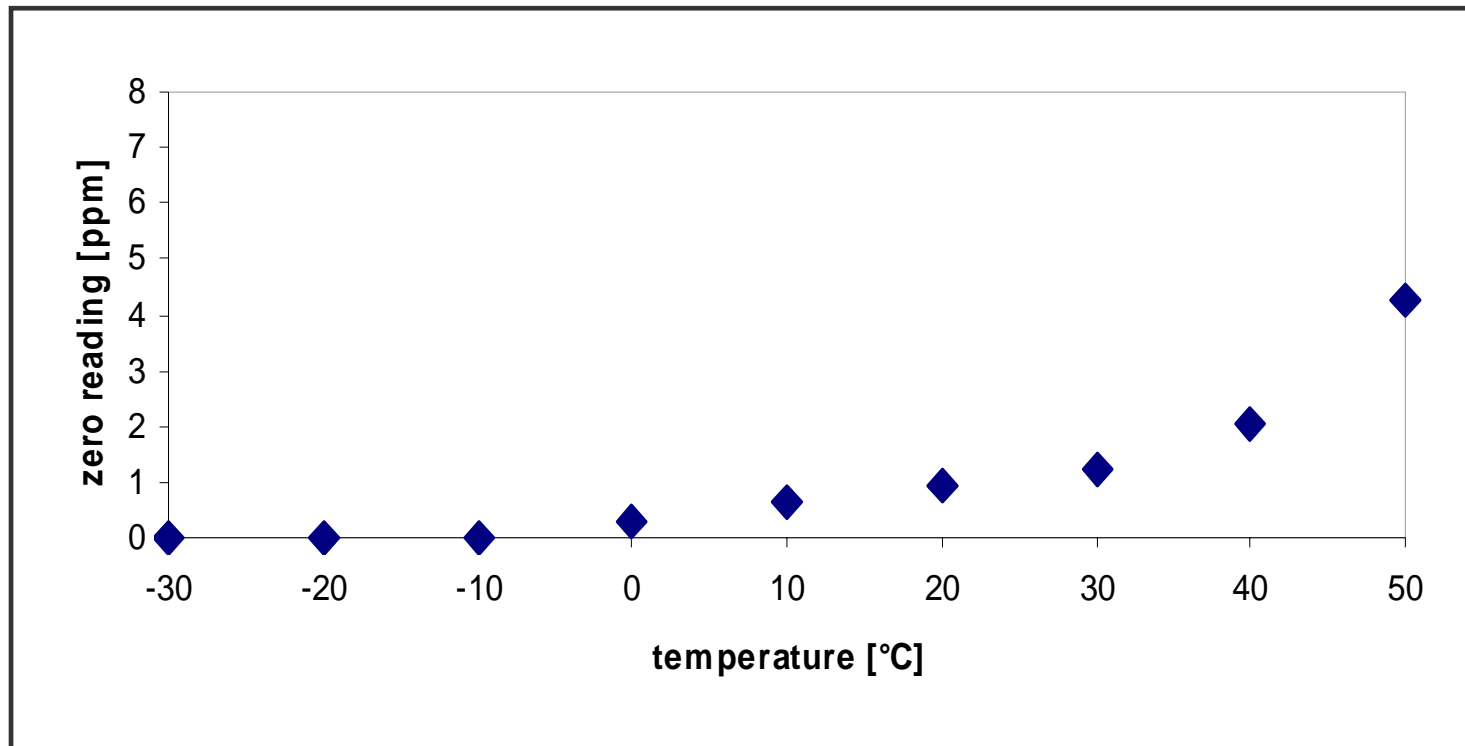
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ZERO READING vs. TEMPERATURE:



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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	-40
Hydrogen	3000 ppm	0
Hydrogen Sulfide	20 ppm	2

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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