

Ammonia

SensoriC NH3 3E 5000 SE



SensoriC NH3 3E 5000 SE

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

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.



SensoriC NH3 3E 5000 SE

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:

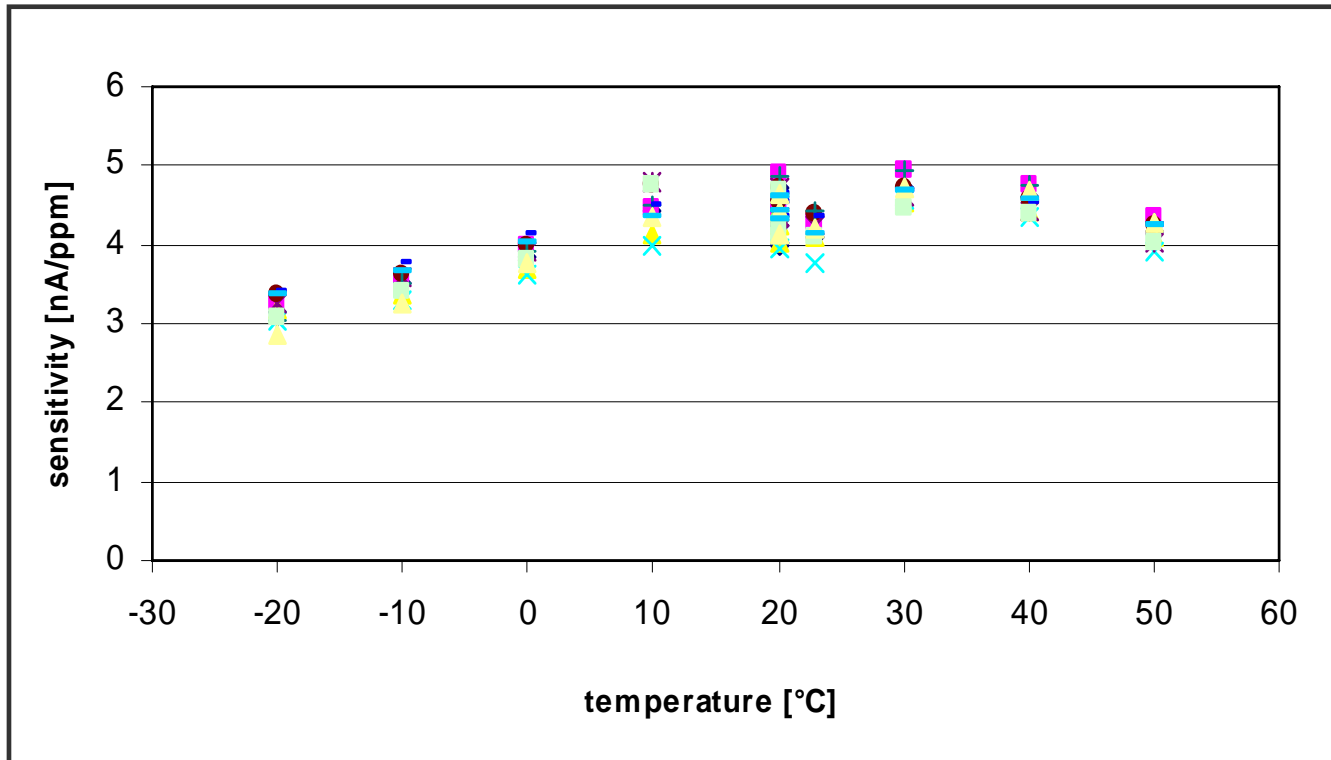
* Background concentrations of ammonia might shorten life time of sensor .

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.



SensoriC NH3 3E 5000 SE

OUTPUT vs. TEMPERATURE:



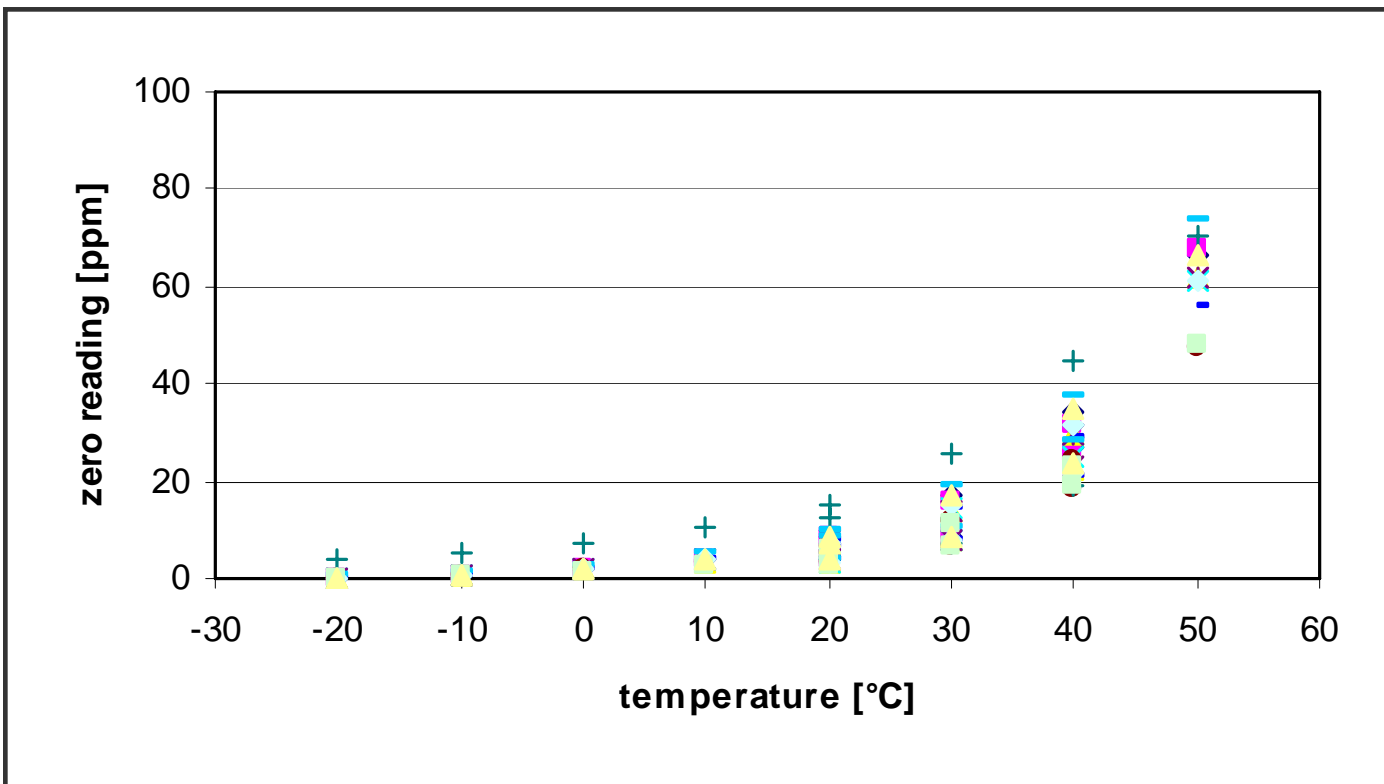
SensoriC deems the data contained herein as factual, and the opinions expressed are those of qualified experts based on the results of tests conducted. The above data can not be used as a warranty provision or representation for which SensoriC assumes legal responsibility. The data are offered solely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



Rev. 09/2006

SensoriC NH3 3E 5000 SE

ZERO READING vs. TEMPERATURE:



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.



Rev. 09/2006

SensoriC NH3 3E 5000 SE

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.

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.



Rev. 09/2006