

Ammonia

SensoriC NH3 3E 100



Product Data Sheet

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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 .

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 |

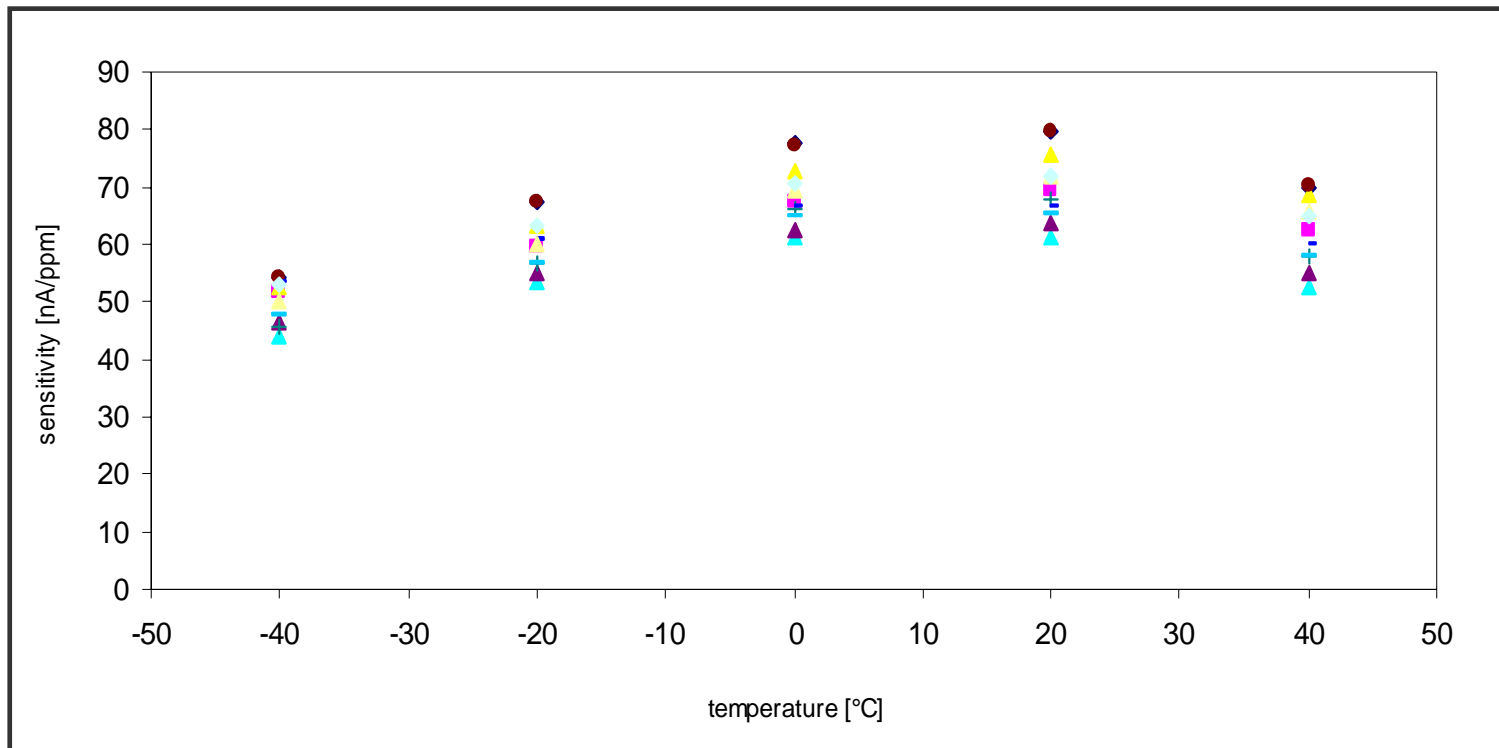
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OUTPUT vs. TEMPERATURE:



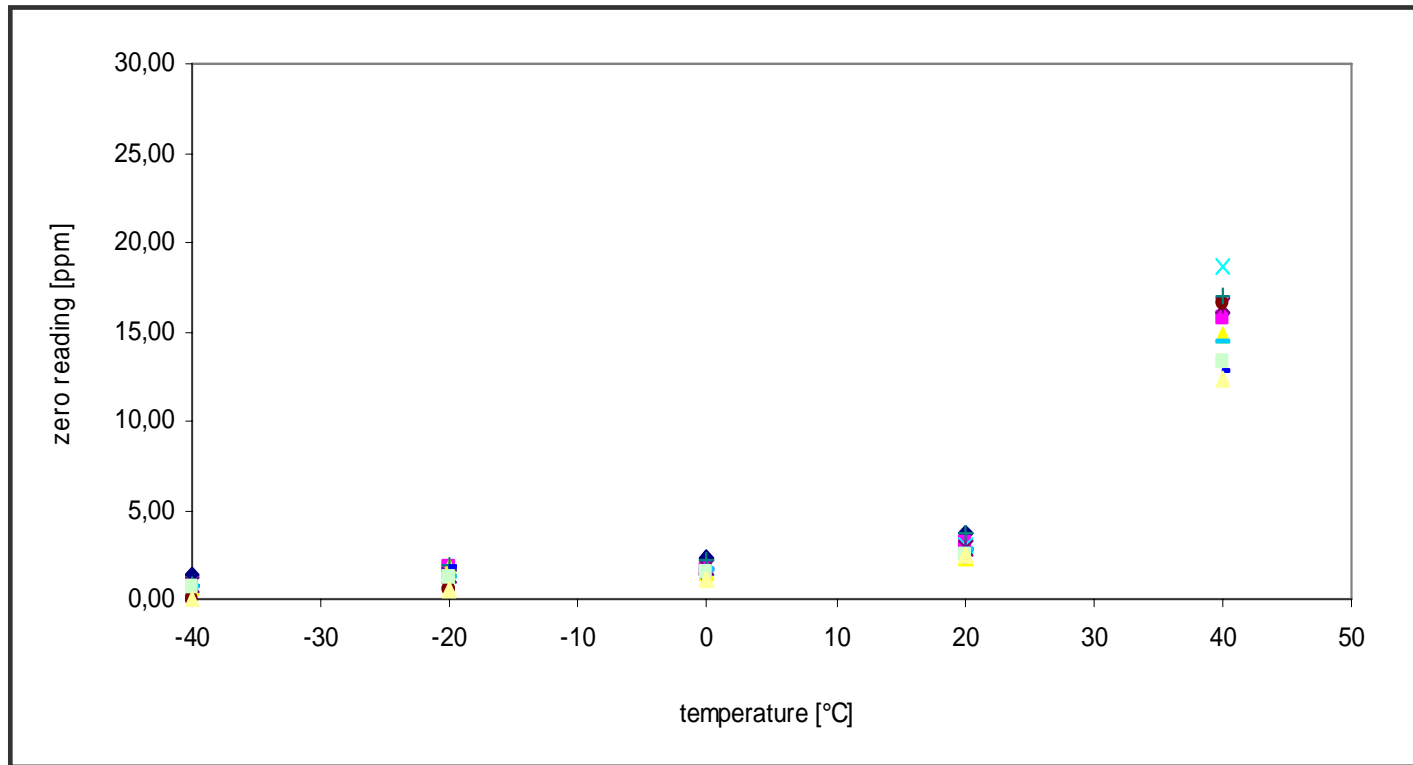
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ZERO READING vs. TEMPERATURE:



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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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