Ammonia

.....NH3 3E 5000 SE

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FEATURES

Amperometric 3 electrode sensor cell Low susceptibility to abrupt changes of humidity High selectivity 0 voltage biased operation

TYPICAL APPLICATIONS

Portable & fixed point applications

Monitoring of IDLH levels, General Industry, Chemical Industry, Food & Refrigeration Industry

No background concentrations of ammonia *

Note:

PART NUMBER INFORMATION

MINI 1858-932-30009 4 series adaptation 1858-932-30049 7 series adaptation 1858-932-30079

^{*} Background concentrations of ammonia might shorten life time of sensor .

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TECHNICAL SPECIFICATIONS

Measuring Range 0–5000 ppm

Sensitivity Range $4 \text{ nA/ppm} \pm 2 \text{ nA/ppm}$ Zero Current at $20 ^{\circ}\text{C}$ $<\pm 100 \text{ nA}$, typically 40 nA Resolution at $20 ^{\circ}\text{C}$ <50 ppm, typically 20 ppm

Bias Potential 0 mV

Linearity <10% full scale

Response Time at 20 ℃

< 30 s calculated from 5 min. exposure time< 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

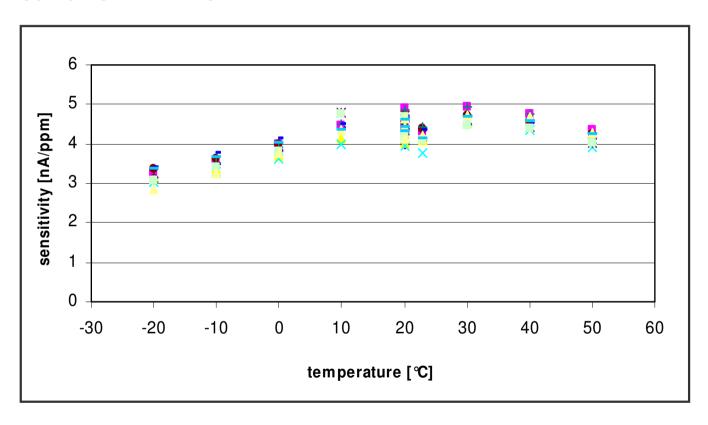
Note:

 $\underline{\ ^*\ \text{Bac}}\text{kground}$ concentrations of ammonia might shorten life time of sensor .

V ② 4 為 ~ a&c | ^ | Ableems 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 ② 4 a ~ a&c | ^ | a summer 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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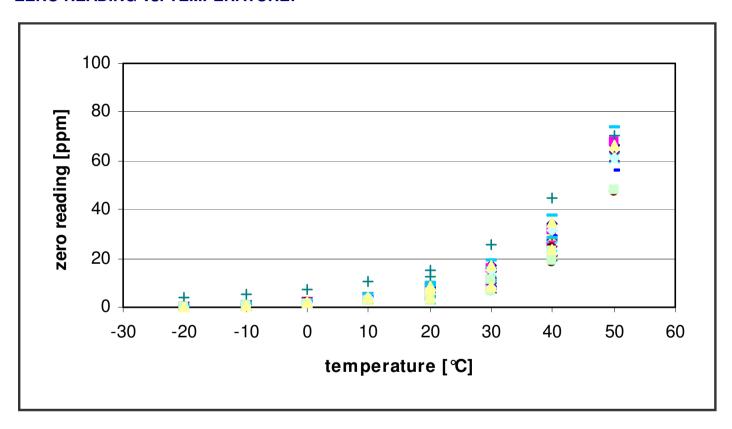
OUTPUT vs. TEMPERATURE:



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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20 ℃

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 adviseable 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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Safety Note

This sensor is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardi•e the safety of people and property.

Attention

Use of tha range [Ásensors requires complete understanding of the instructions. Before using 🍪 Áæ) *^Éplease carefully read 'Application Notes'È

For further assistance on sensor selection and use, please contact a member of the Technical Sales team.

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