## Ammonia

# SensoriC NH3 3E 5000 SE



SensoriC Sensors are designed and manufactured in Justus-von-Liebig-Str. 22, D- 53121 Bonn, Germany WWW.citytech的知道动化 http://www.s语的对480073964890FAX807556483376182 E-MAIL: szss200163.com

#### **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 \*

#### 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

Note:

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

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#### **TECHNICAL SPECIFICATIONS**

Measuring Range Sensitivity Range Zero Current at 20°C Resolution at 20°C Bias Potential Linearity	0–5000 ppm 4 nA/ppm $\pm$ 2 nA/ppm < $\pm$ 100 nA, typically 40 nA <50 ppm, typically 20 ppm 0 mV <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:

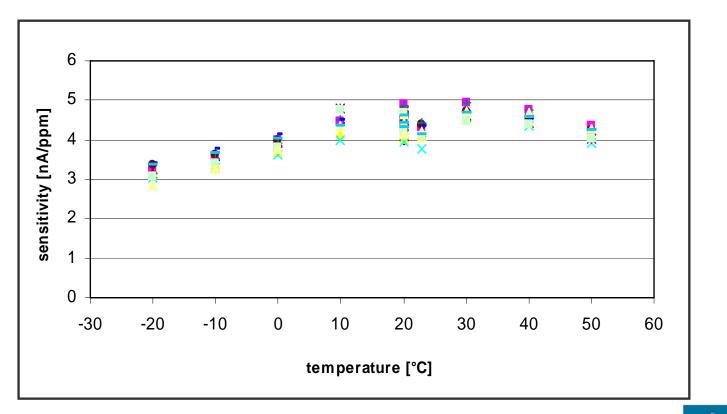
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#### **OUTPUT vs. TEMPERATURE:**



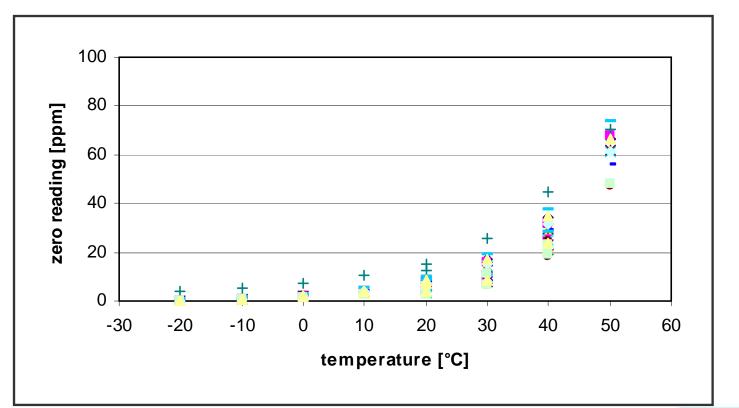
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#### **CROSS SENSITIVITIES AT 20°C**

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