Ammonia SensoriC NH3 3E 100 SE



FEATURES

Amperometric 3 electrode sensor cell Very stable zero reading Very selective Highly sensitive Hydrous electrolyte

TYPICAL APPLICATIONS

TLV-monitoring, leakage detection portable & fixed point applications Food & Refrigeration Industry, General Industry, Semiconductor Industry

PART NUMBER INFORMATION

MINI	1845-932-30009
SENSORIC CLASSIC	1845-932-30069
CTL 4 series adaptation	1845-932-30049
CTL 7 series adaptation	1845-932-30079



TECHNICAL SPECIFICATIONS

Measuring Range 0–100 ppm

Sensitivity Range 130 nA/ppm ± 30 nA/ppm

Zero Current at 20° C $< \pm 100 \text{ nA}$ Resolution at 20° C < 1 ppmBias Potential 0 mV

Linearity < 10% full scale

Response Time at 20°C

< 20 s calculated from 5 min. exposure time
 < 60 s calculated from 5 min. exposure time

Long Term Sensitivity Drift < 5% per 6 months

Operation Conditions

Temperature Range -20°C to +40°C

Humidity Range 15–90% r.H, non–condensing

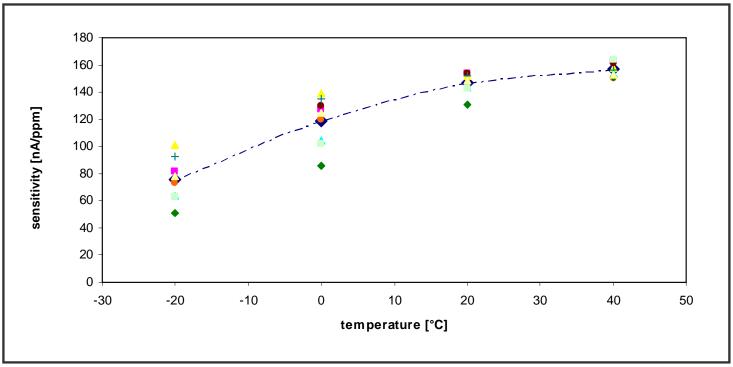
Effect of Humidity

Sensor Life Expectancy > 24 months in air*

Warranty 12 months

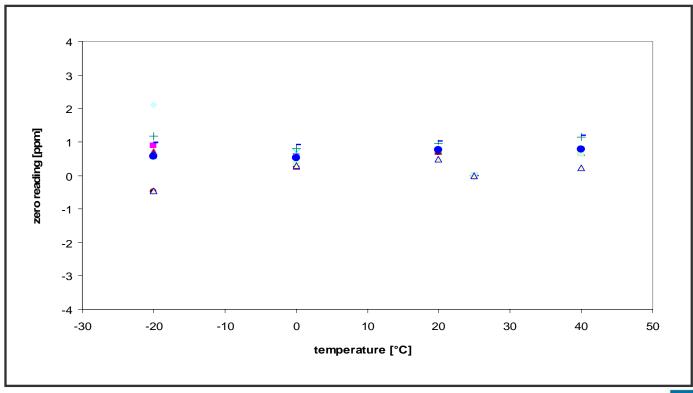


OUTPUT vs. TEMPERATURE:





ZERO READING vs. TEMPERATURE:





Cross Sensitivities at 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	0
Hydrocarbons	% range	0
Hydrogen	10000 ppm	0
Hydrogen Sulfide	20 ppm	2 ¹

¹⁾ Short gas exposure in minute range.

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.

