

Nitrogen Dioxide

SensoriC NO2 3E 50



Rev. 09/2006

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FEATURES

Amperometric 3 electrode sensor cell
Good zero stability
Fast response
High resolution

TYPICAL APPLICATIONS

TLV monitoring, parking garages

PART NUMBER INFORMATION

MINI	2241-032-30009
SENSORIC CLASSIC	2241-032-30069
CTL 4 series adaptation	2241-032-30049
CTL 7 series adaptation	2241-032-30079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–50 ppm
Sensitivity Range	200 nA/ppm ± 40 nA/ppm (negative signal)
Zero Current at 20°C	< ± 20 nA
Resolution at 20°C	< 0.1 ppm
Bias Potential	0 mV
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 10 s calculated from 4 min. exposure time
t90	< 30 s calculated from 4 min. exposure time
Long Term Sensitivity Drift	< 5% per month
Operation Conditions	
Temperature Range	-20°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	> 24 months in air
Warranty	12 months

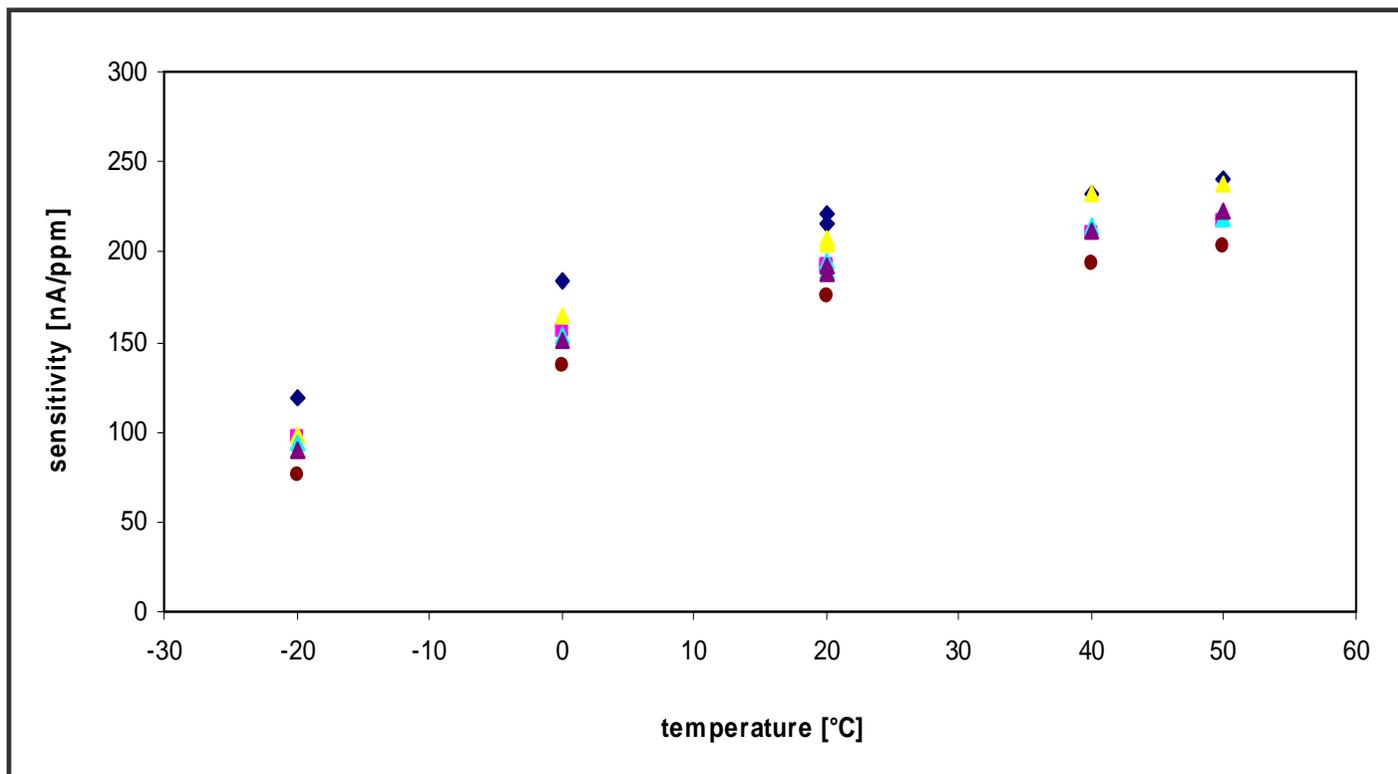
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OUTPUT vs. TEMPERATURE:



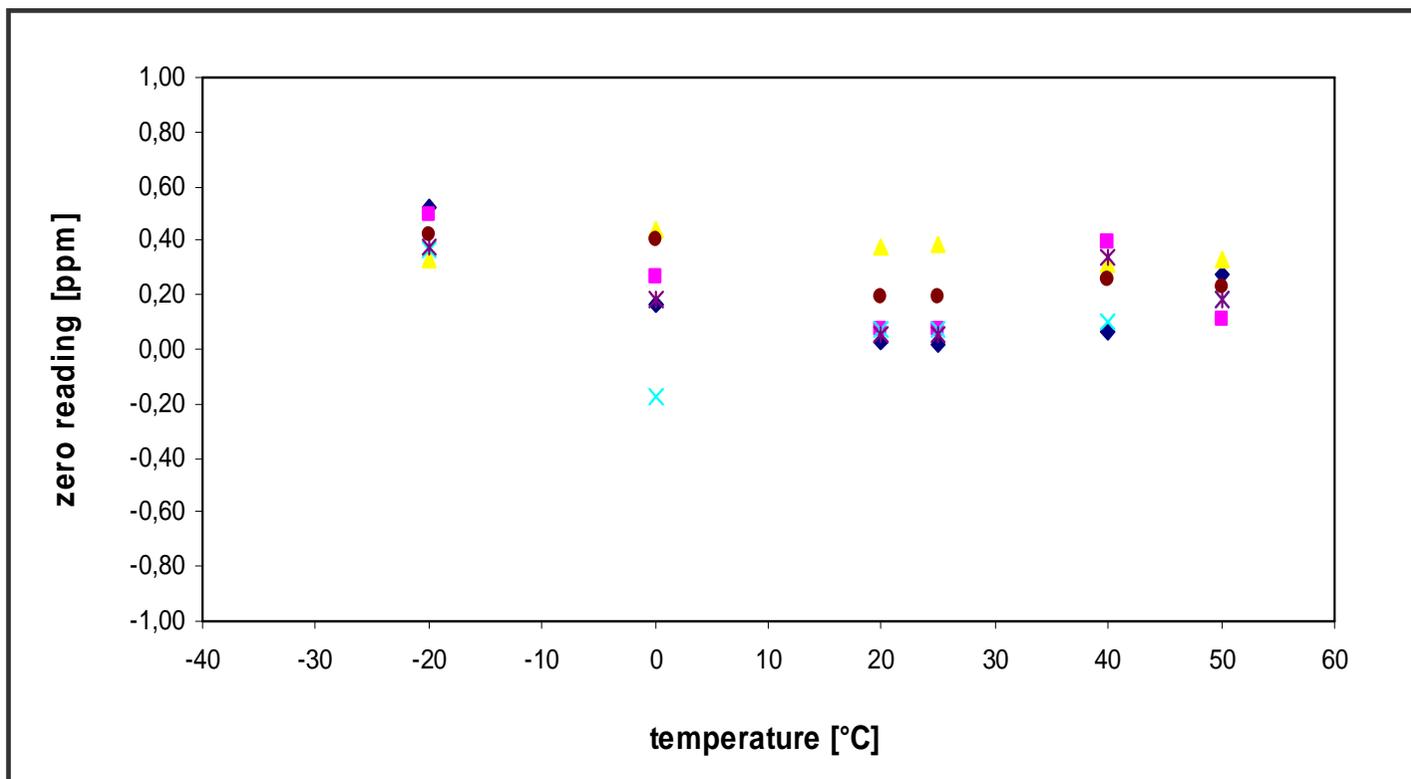
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Carbon Dioxide	5000 ppm	0
Chlorine	1 ppm	1
Nitric Oxide	100 ppm	0.4
Sulfur Dioxide	20 ppm	5
Hydrogen	3000 ppm	0

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.

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