

Hydrogen Cyanide

SensoriC HCN 3E 30 F



Rev. 09/2006

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FEATURES

- Amperometric 3 electrode sensor cell
- Very stable zero reading
- Very selective
- Highly sensitive
- Fixed organic gel electrolyte

TYPICAL APPLICATIONS

- TLV-monitoring, leakage detection
- portable & fixed point applications
- Gold mining

PART NUMBER INFORMATION

MINI	1639-231-30009
SENSORIC CLASSIC	1639-231-30069
CTL 4 series adaptation	1639-231-30049
CTL 7 series adaptation	1639-231-30079

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TECHNICAL SPECIFICATIONS

Measuring Range	0 – 30 ppm ¹⁾
Sensitivity Range	60 nA/ ppm ± 15 nA/ ppm
Zero Current at 20°C	< ± 15 nA
Resolution at 20°C	< 0.2 ppm
Bias Potential	0 mV
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 25 s calculated from 2 min. exposure time
t90	< 50 s calculated from 2 min. exposure time
Long Term Sensitivity Drift	< 5% per month
Operation Conditions	
Temperature Range	-40°C to +40°C
Humidity Range	15–95% r.H., non–condensing
Effect of Humidity	no effects
Sensor Life Expectancy	> 18 months
Warranty	12 months

1) 0 – 100 ppm during short gas exposure in minute range.

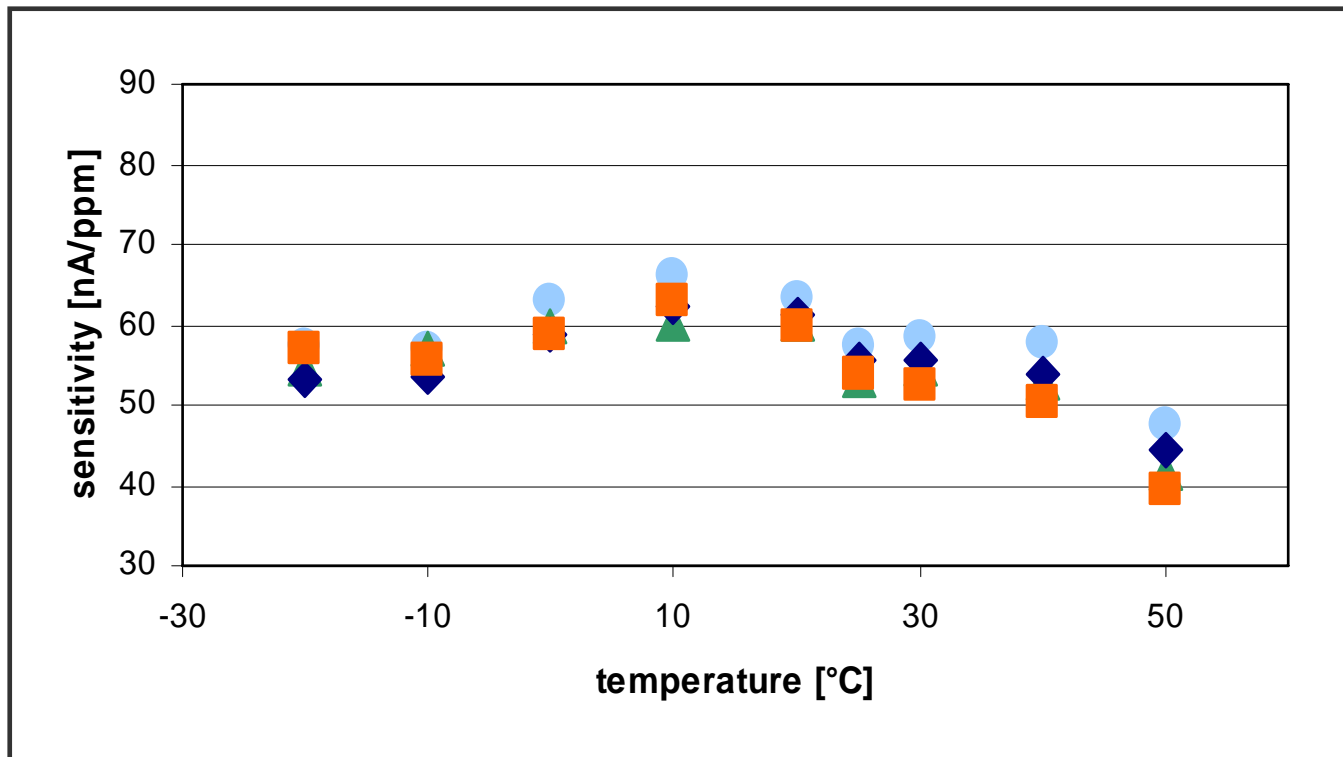
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OUTPUT vs. TEMPERATURE:



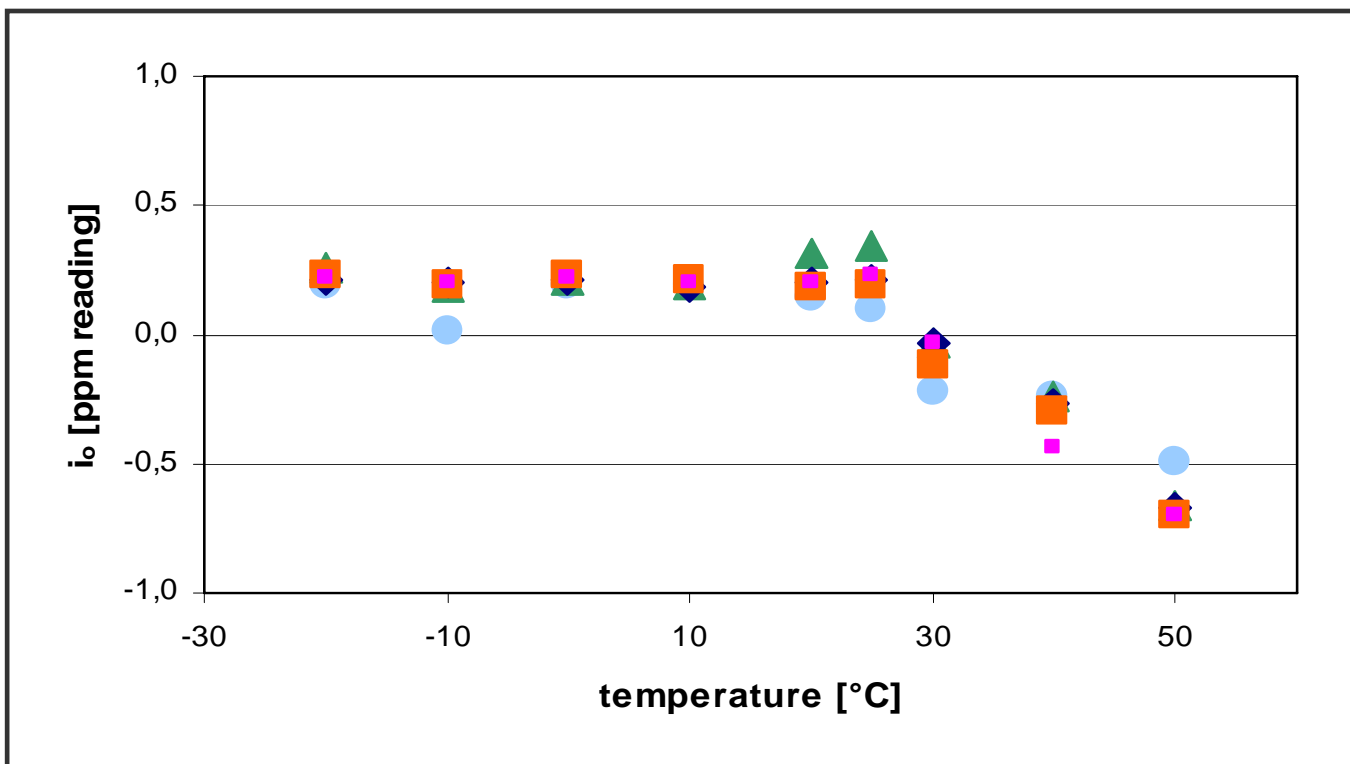
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	0
Hydrocarbons	% range	0
Hydrogen	10000 ppm	0
Nitric Oxide	100 ppm	-5
Nitrogen Dioxide	10 ppm	-7
Hydrogen Sulfide	20 ppm	0 ¹

1) Short gas exposure in minute range; after filter saturation: ca. 40 ppm reading.

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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