

Hydrogen Cyanide

HCN 3E 30 F

Product Data Sheet

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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
4 series adaptation	1639-231-30049
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	
t ₅₀	< 25 s calculated from 2 min. exposure time
t ₉₀	< 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

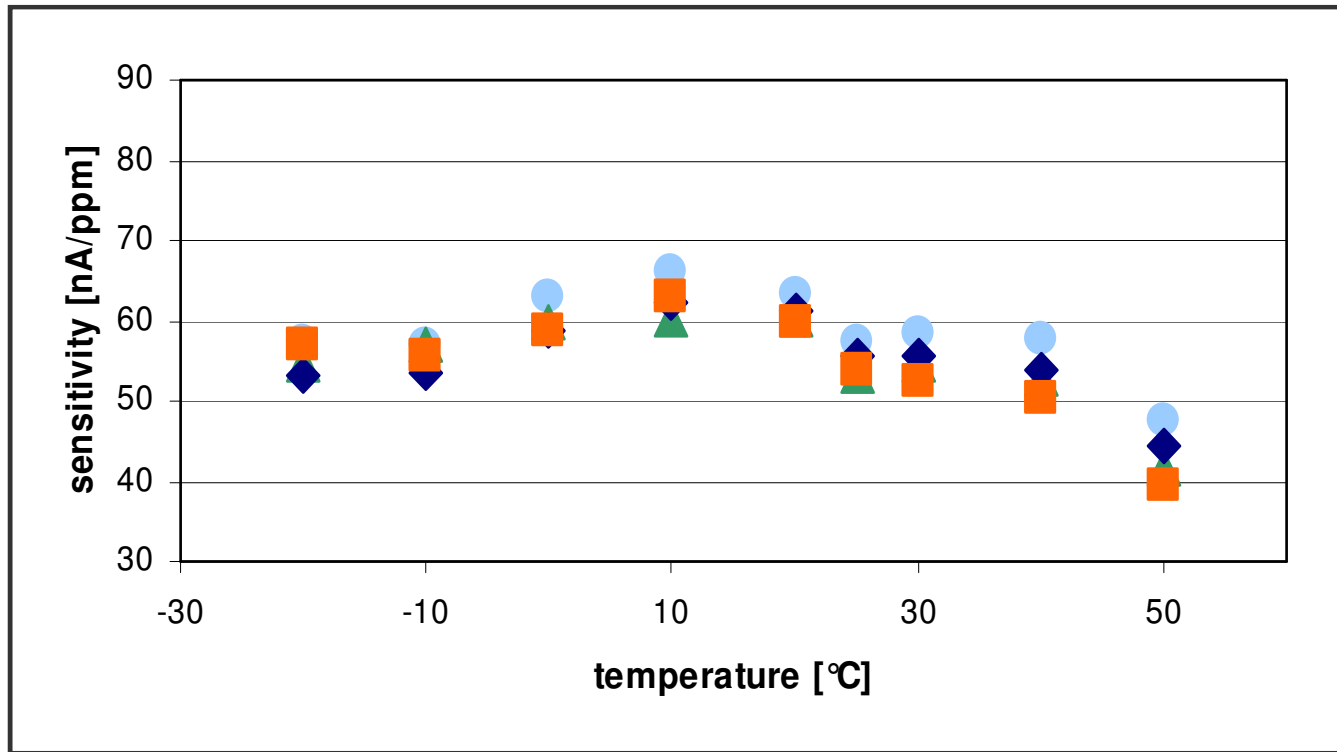
1) 0 – 100 ppm during short gas exposure in minute range.

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OUTPUT vs. TEMPERATURE:

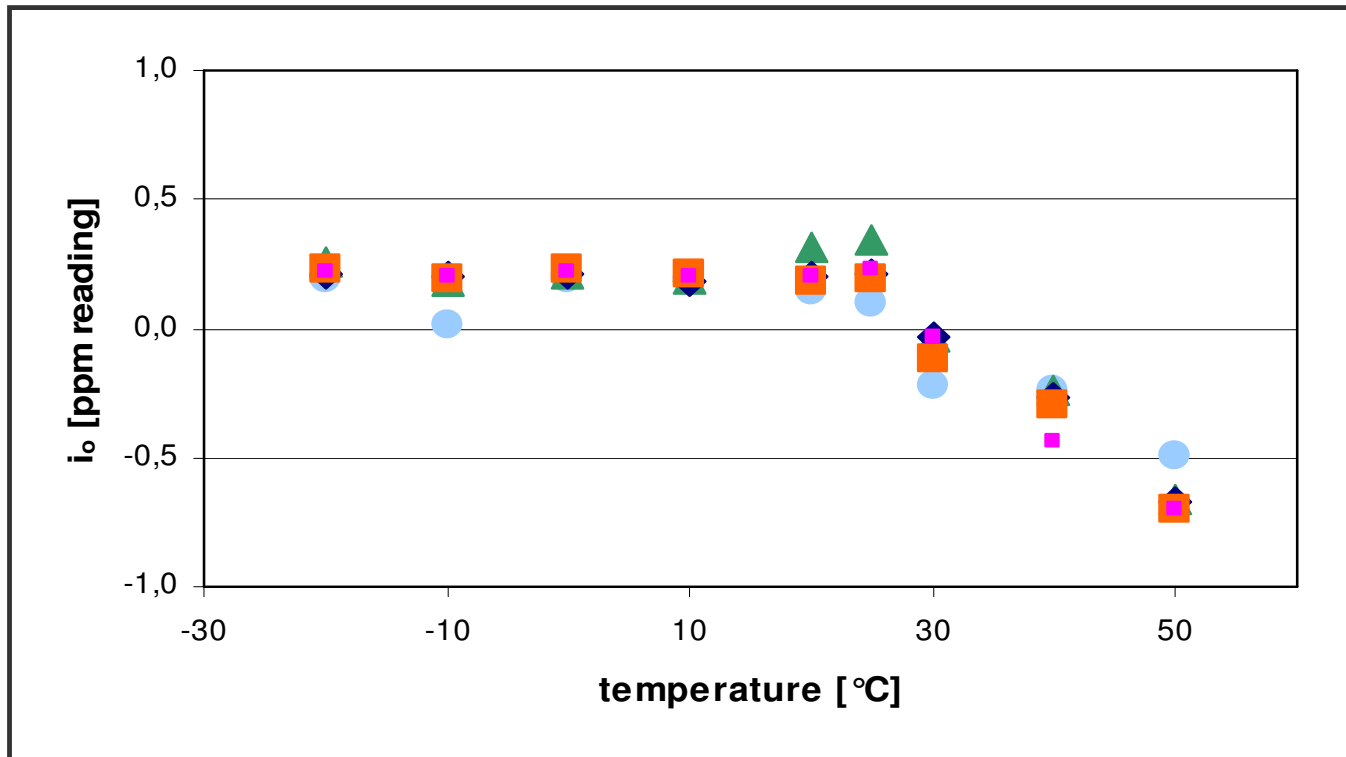


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ZERO READING vs. TEMPERATURE:



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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: approx. 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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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 jeopardize the safety of people and property.

Attention

Use of this range of sensors requires complete understanding of the instructions.

Before using this range, please carefully read relevant 'Application Notes'.

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

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