

Hydrogen Cyanide

SensoriC HCN 2E 30 F



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FEATURES

Amperometric 2 electrode sensor cell
Very selective
Fast response
High resolution
Fixed organic gel electrolyte

TYPICAL APPLICATIONS

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

PART NUMBER INFORMATION

MINI	1639-221-30009
SENSORIC CLASSIC	1639-221-30069
CTL 4 series adaptation	1639-221-30049
CTL 7 series adaptation	1639-221-30079

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Rev. 09/2006

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TECHNICAL SPECIFICATIONS

Measuring Range	0 – 30 ppm
Sensitivity Range	30 nA/ ppm \pm 15 nA/ ppm
Zero Current at 20°C	< \pm 5 nA
Resolution at 20°C	< 0.2 ppm
Bias Potential	not required
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 20 s calculated from 2 min. exposure time
t90	< 30 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 - 90% r.H., non-condensing
Effect of Humidity	no effects
Sensor Life Expectancy	> 18 months
Warranty	12 months

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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Ammonia	100 ppm	0
Arsine	0.2 ppm	1
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	1
Chlorine	1 ppm	0
Diborane	0.25 ppm	0.4
Hydrocarbons	% ppm	0
Hydrochloric Acid	5 ppm	0
Hydrogen	10000 ppm	0
Hydrogen Sulfide	10 ppm	0 ¹
Nitric Oxide	100 ppm	0
Nitrogen	100 %	0
Nitrogen Dioxide	10 ppm	-19
Ozone	0.25 ppm	0
Sulfur Dioxide	20 ppm	0.04

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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