Hydrogen Cyanide

Sensoric HCN 2E 30 F

Rev. 11/2011

Sensoric Sensors are designed and manufactured in
Justus-von-Liebig-Str. 22, D- 53121 Bonn, Germany
Tel: ++49 (0) 228 52 66 40 **Fax**: ++49 (0) 228 5266439

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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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TECHNICAL SPECIFICATIONS

Measuring Range	0 – 30 ppm
Sensitivity Range	30 nA/ ppm ± 15 nA/ ppm
Zero Current at 20°C	< ± 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	0
Chlorine	1 ppm	0
Diborane	0.25 ppm	0.4
Hydrocarbons	% ppm	0
Hydrochloric Acid	5 ppm	0[1]
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

1) Short gas exposure in minute range; after filter saturation: H2S approx.40 ppm reading, HCl approx. 5 ppm;

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.

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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 the Sensoric range sensors requires complete understanding of the instructions. Before using Sensoric range sensors please carefully read 'Application Notes' which can be found at www.citytech.com under the heading '*Support' -> 'Application Notes' -> 'Sensoric'*

Product Safety Data Sheets (PSDS) can be obtained at www.citytech.com under the heading '*Support' -> 'Product Safety Datasheets'*

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

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