Hydrogen Cyanide HCN 2E 30 F

HCN 2E 30 F

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 CTL 4 series adaptation 1639-221-30049

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TECHNICAL SPECIFICATIONS

Measuring Range 0-30 ppm

Sensitivity Range 30 nA/ ppm \pm 15 nA/ ppm

Zero Current at $20\,^{\circ}$ C $< \pm 5$ nA Resolution at $20\,^{\circ}$ C < 0.2 ppm not required Linearity < 5% full scale

Response Time at 20 ℃

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 ℃

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	01
Hydrogen	10000 ppm	0
Hydrogen Sulfide	10 ppm	01
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.

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 'Application Notes'.

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