

Hydrazine

Sensoric N2H4 2E 1



Product Data Sheet

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FEATURES

Amperometric 2 electrode sensor cell
organic gel electrolyte
high reliability
high resolution

TYPICAL APPLICATIONS

leakage detection
portable & fixed point applications

PART NUMBER INFORMATION

MINI	2131-021-30009
SENSORIC CLASSIC	2131-021-30069
CTL4 series adaptation	2131-021-30049
CTL 7 series adaptation	2131-021-30079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–1 ppm
Sensitivity Range	1200 nA/ppm \pm 300 nA/ ppm
Zero Current at 20 °C	$< \pm 15$ nA
Resolution at 20 °C	< 0.01 ppm
Bias Potential	not required
Linearity	$< 10\%$ full scale
Response Time at 20 °C	
t50	< 30 s calculated from 4 min. exposure time
t90	< 120 s calculated from 4 min. exposure time
Long Term Sensitivity Drift	$< 10\%$ per 6 months
Operation Conditions	
Temperature Range	-10 °C to +40 °C
Humidity Range	20–95% r.H., non–condensing
Effect of Humidity	an abrupt change of rel. humidity will cause a short term drift in zero reading
Sensor Life Expectancy	> 12 months
Warranty	42 weeks

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OUTPUT vs. TEMPERATURE:

Due to the nature of the gas the temperature dependence of the sensor as a function of the environmental temperature conditions is strongly related to the experimental conditions.

Sensoric is currently revising this set of data.

Based on the current experience with this sensor the temperature dependence

- a) on the zero reading is < 0.1 ppm*
- b) on the sensitivity is < 20% of the sensitivity at 20°C*

within the specified temperature range.

Please contact our Technical Support Department (sales_europe@citytech.com) for further details.

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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Ammonia	100 ppm	0
Arsine	0.1 ppm	0.1
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	0
Chlorine	1 ppm	-0.75
Hydrocarbons	% range	0
Hydrogen	3000 ppm	0
Hydrogen Cyanide	20 ppm	0.7
Hydrogen Sulfide	1 ppm	0.1
Isopropanol	200 ppm	0
Nitrogen	100 %	0
Nitrogen Dioxide	10 ppm	-5
Ozone	0.25 ppm	-0.2
Sulfur Dioxide	5 ppm	0.5

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 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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