

Hydrazine

SensoriC N2H4 2E 1



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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 |

SensoriC deems the data contained herein as factual, and the opinions expressed are those of qualified experts based on the results of tests conducted. The above data can not be used as a warranty provision or representation for which SensoriC assumes legal responsibility. The data are offered solely for consideration, investigation and verification. Any use of this information is subject to federal, state and local laws and regulations.



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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 (tech@sensoric.de) for further details.

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CROSS SENSITIVITIES AT 20°C

| Gas | Concentration | Reading [ppm] |
|------------------|---------------|-------------------|
| Alcohols | 1000 ppm | 0 |
| Ammonia | 200 ppm | 0.04 ¹ |
| Arsine | 0.1ppm | 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 | 11 |
| Nitrogen | 100 % | 0 |
| Nitrogen Dioxide | 10 ppm | -5.4 |
| Ozone | 0.25 ppm | -0.2 |
| Sulfur Dioxide | 5 ppm | 0.5 |

1) short time, then decreasing signal; after exposure the reading is negative, then again zero

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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