

Tetrahydrothiophene

Sensoric THT 3E 50

Product Data Sheet

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FEATURES

Amperometric 3 electrode sensor cell
Fast response
High reliability
Good long term stability

TYPICAL APPLICATIONS

Monitoring of odorants in natural gas applications

PART NUMBER INFORMATION

SENSORIC CLASSIC	2345-034-11069
CTL 4 series adaptation	2345-034-14049
CTL 7 series adaptation	2345-034-17079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–50 mg/m ³
Sensitivity Range	140 nA/ mg/m ³ ± 50 nA/ mg/m ³
Zero Current at 20 °C	< ± 200 nA
Resolution at 20 °C	< 1.5 mg/m ³
Bias Potential	+150 mV
Linearity	< 5% full scale
Response Time at 20 °C	
t ₅₀	< 10 s calculated from 2 min. exposure time (at 33 Ohm)
t ₉₀	< 30 s calculated from 2 min. exposure time (at 33 Ohm)
Long Term Sensitivity Drift	< 10% per 6 months
Operation Conditions	
Temperature Range	-10 °C to +40 °C
Humidity Range	15–90% r.H., non–condensing
Effect of Humidity	no effect
Sensor Life Expectancy	> 18 months
Warranty	12 months

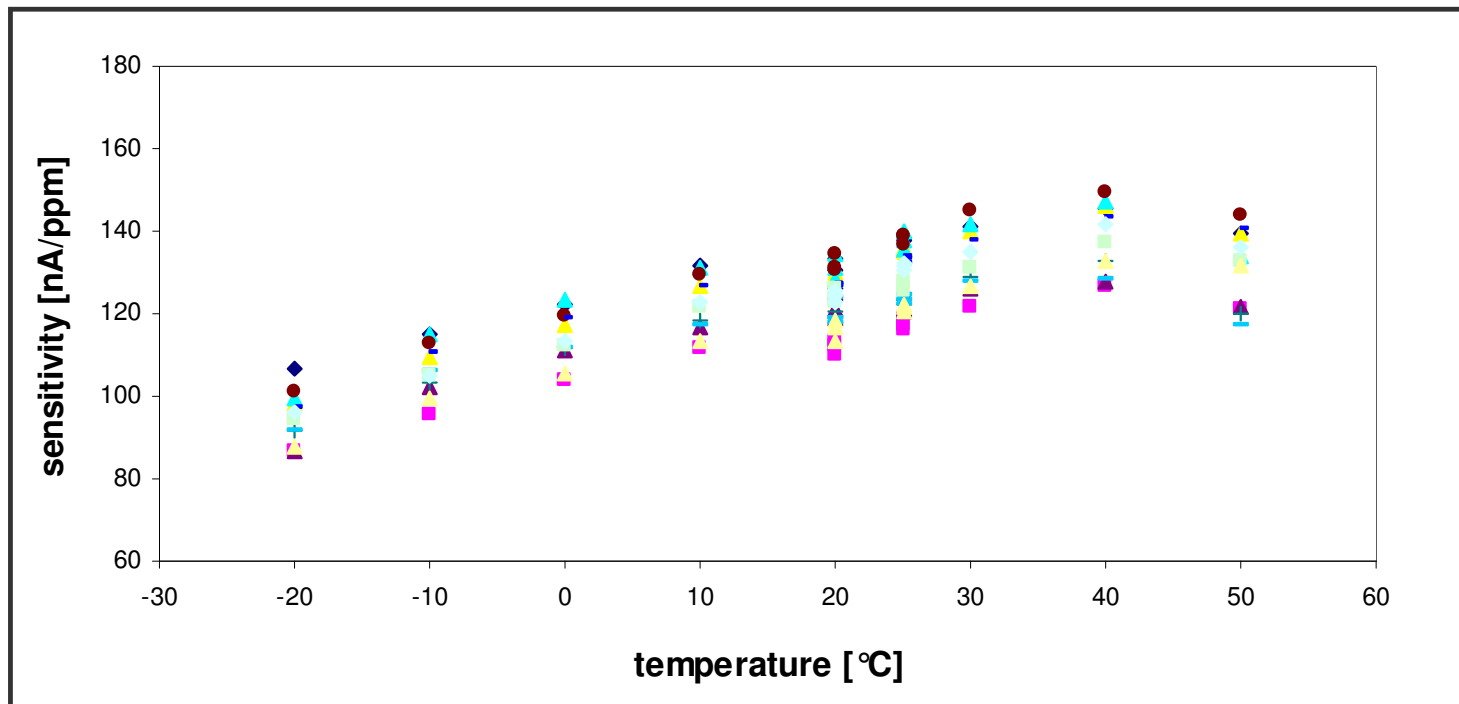
Note: 1 ppm = 3,66 mg/m³

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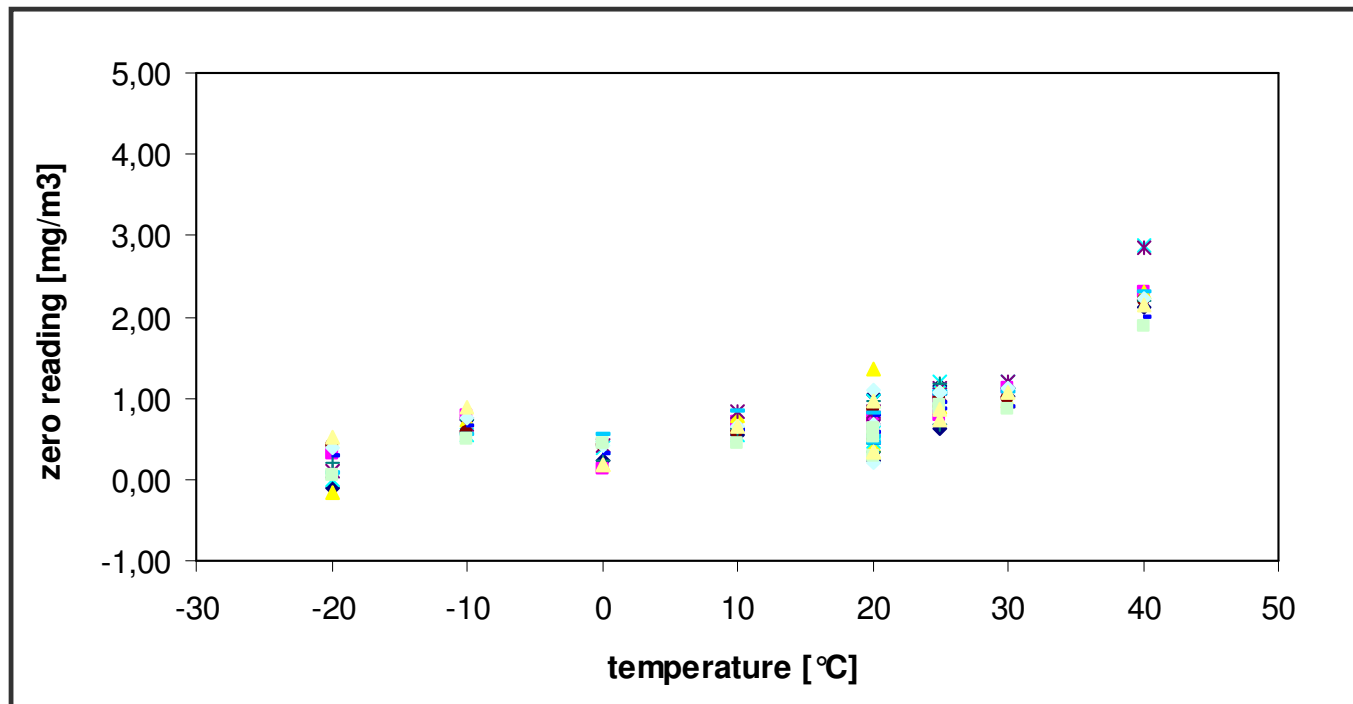
OUTPUT vs. TEMPERATURE:



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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20 °C

Gas	Concentration	Reading [mg/m3]
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	2
Carbon Oxide Sulfide	1 %	10
Ethylene	1 %	yes; n/d
Hydrocarbons	% range	0
Hydrogen	1 %	0
Hydrogen Sulfide	20 ppm	0 ¹⁾
Isopropanol	200 ppm	400
Methane	100 %	0
Nitrogen	100 %	0
Tert.-Butylmercaptane	10 mg/m3	10

1) With inboard filter; to remove TLV levels of interfering gases; continuous high level exposure may reduce the efficiency of the filter material.

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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