

## Carbon Monoxide

### Sensoric CO 3E 300



# Product Data Sheet

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### FEATURES

Amperometric 3 electrode sensor cell  
Very selective  
Highly sensitive  
Long lifetime

### TYPICAL APPLICATIONS

TLV-monitoring, leakage detection  
portable & fixed point applications  
Oil & Petrochemical industry, parking garages, Mining, Steel Industry

### PART NUMBER INFORMATION

MINI	0248-034-30009
SENSORIC CLASSIC	0248-034-30069
CTL 4 series adaptation	0248-034-30049
CTL 7 series adaptation	0248-034-30079

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### TECHNICAL SPECIFICATIONS

Measuring Range	0-500 ppm
Sensitivity Range	70 nA/ppm $\pm$ 20 nA/ppm
Zero Current at 20 °C	< 150 nA
Resolution at 20 °C	< 3 ppm
Bias Potential	0 mV
Linearity	< 5% full scale
Response Time at 20 °C	
t50	< 10 s calculated from 2 min. exposure time
t90	< 30 s calculated from 2 min. exposure time
Long Term Sensitivity Drift	< 10% per 6 months
Operation Conditions	
Temperature Range	-40 °C to + 50 °C
Humidity Range	15-90 % r.H., non-condensing
Effect of Humidity	no effect on base line shift, longer exposure to dry gas might decrease the sensitivity
Sensor Life Expectancy	> 4 years
Warranty	24 months

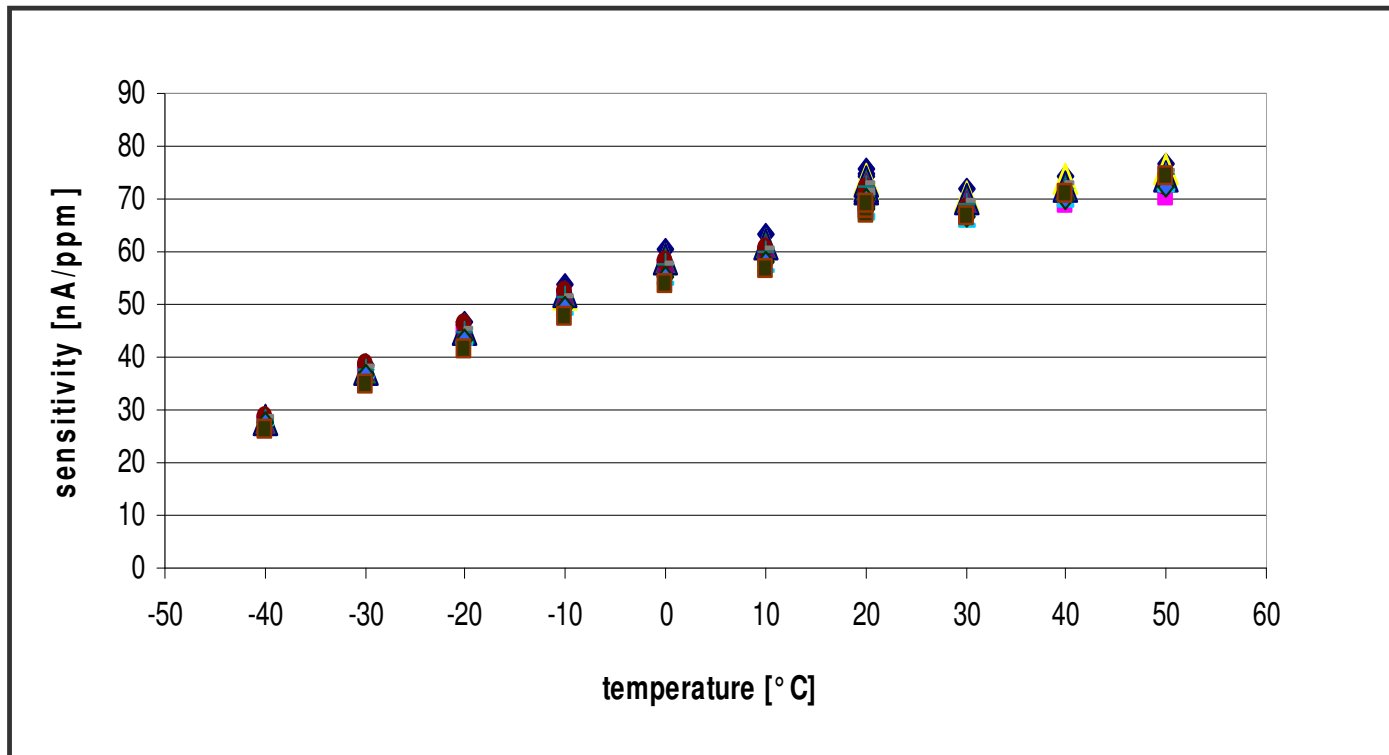
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### OUTPUT vs. TEMPERATURE:



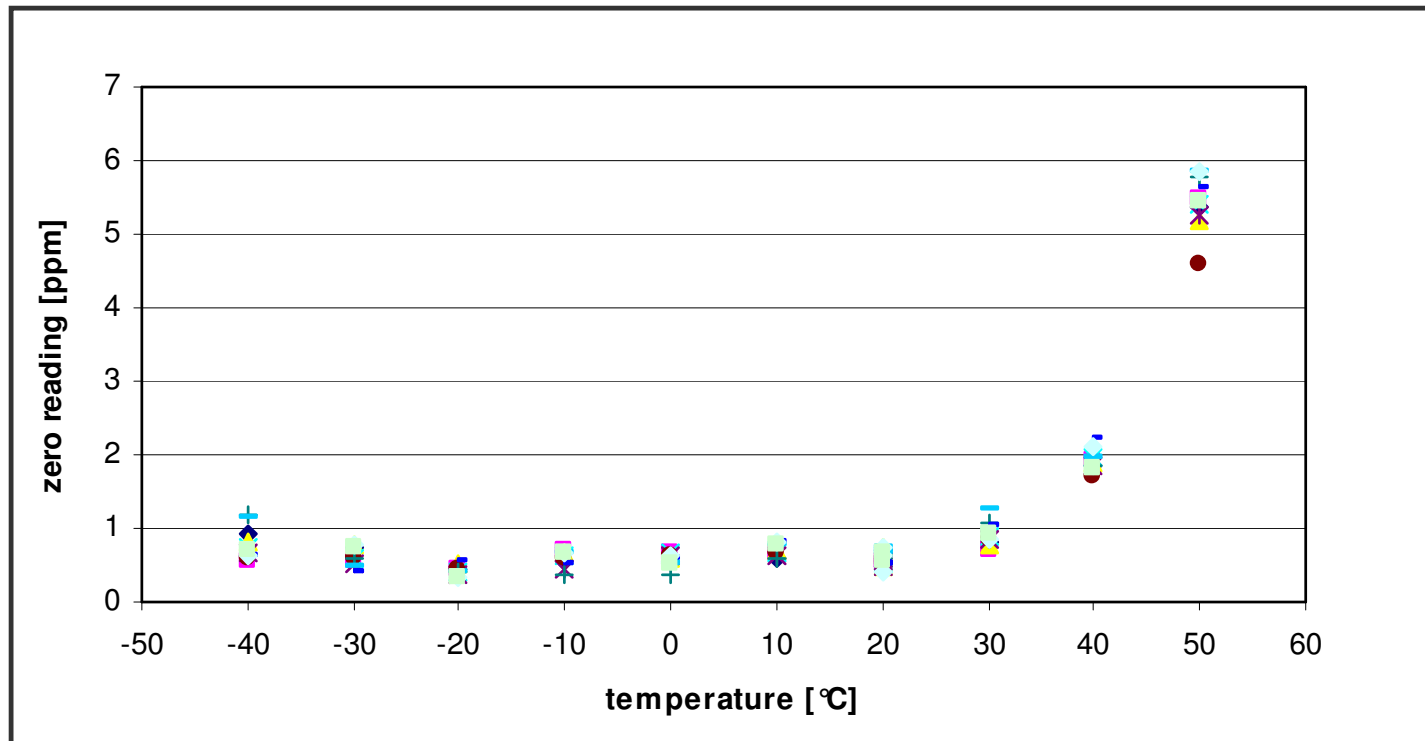
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### ZERO READING vs. TEMPERATURE:



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### CROSS SENSITIVITIES AT 20 °C

Gas	Concentration	Reading [ppm]
Acetic Acid	sat. vapor	0
Alcohols (i.e. IPA)	1025 ppm	0 <sup>1</sup>
Ammonia	100 ppm	0.1
Carbon Dioxide	10 %	0
Chlorine	1 ppm	0
Chlorine Dioxide	1 ppm	0
Gasoline Vapour	% range	0 <sup>1</sup>
Hydrogen	3000 ppm	1000
Hydrogen Sulfide	20 ppm	0 <sup>1</sup>
Nitric Oxide	100 ppm	25
Nitrogen Dioxide	10 ppm	0 <sup>1</sup>
Sulfur Dioxide	20 ppm	0 <sup>1</sup>

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](http://www.citytech.com) under the heading 'Support' -> 'Application Notes' -> 'Sensoric'

Product Safety Data Sheets (PSDS) can be obtained at [www.citytech.com](http://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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