

# Carbon Monoxide

## SensoriC CO 3E 300



Rev. 09/2006

## SensoriC CO 3E 300

### 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

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.



Rev. 09/2006

## SensoriC CO 3E 300

### 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

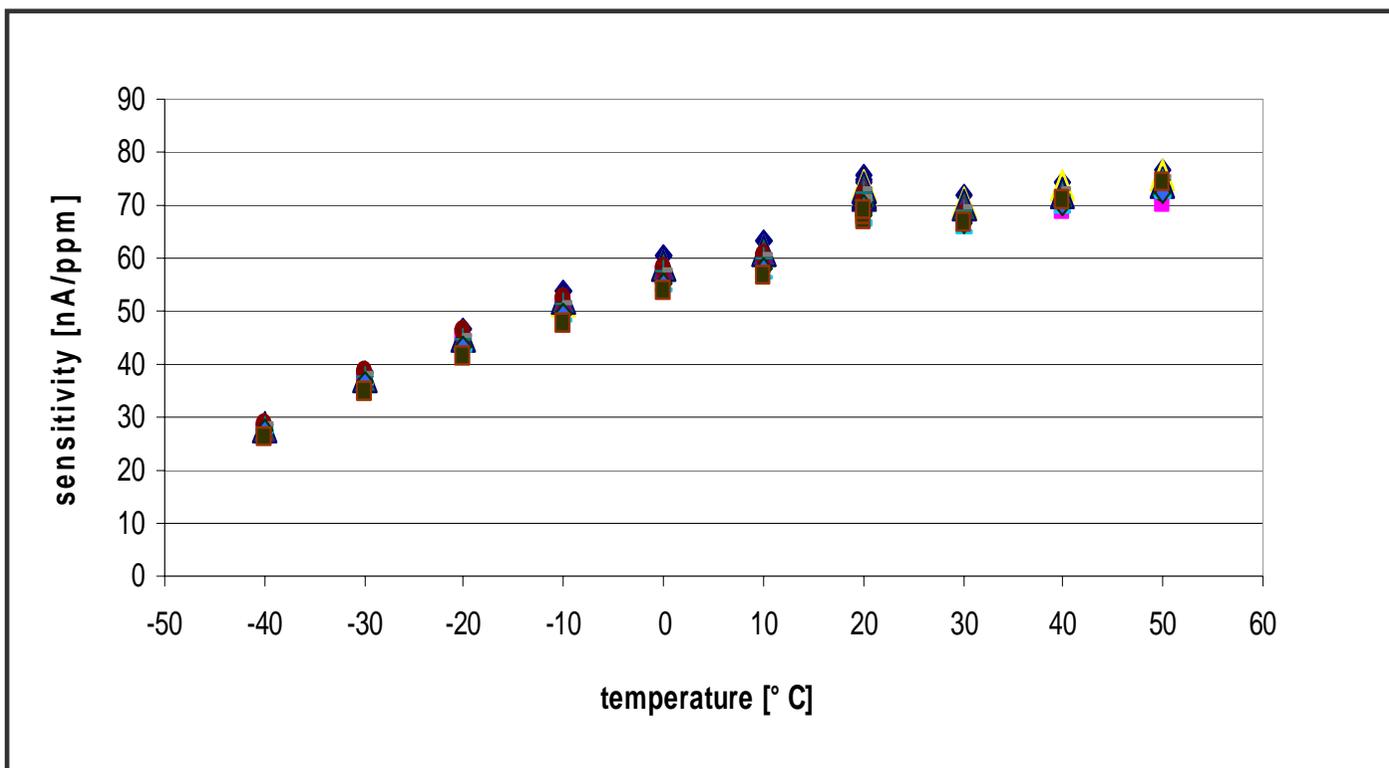
SensoriC deems the data contained herein as factual, and the opinions expressed are those of qualified experts based on the results of tests conducted. The above data can not be used as a warranty provision or representation for which SensoriC assumes legal responsibility. The data are offered solely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



Rev. 09/2006

## SensoriC CO 3E 300

### OUTPUT vs. TEMPERATURE:



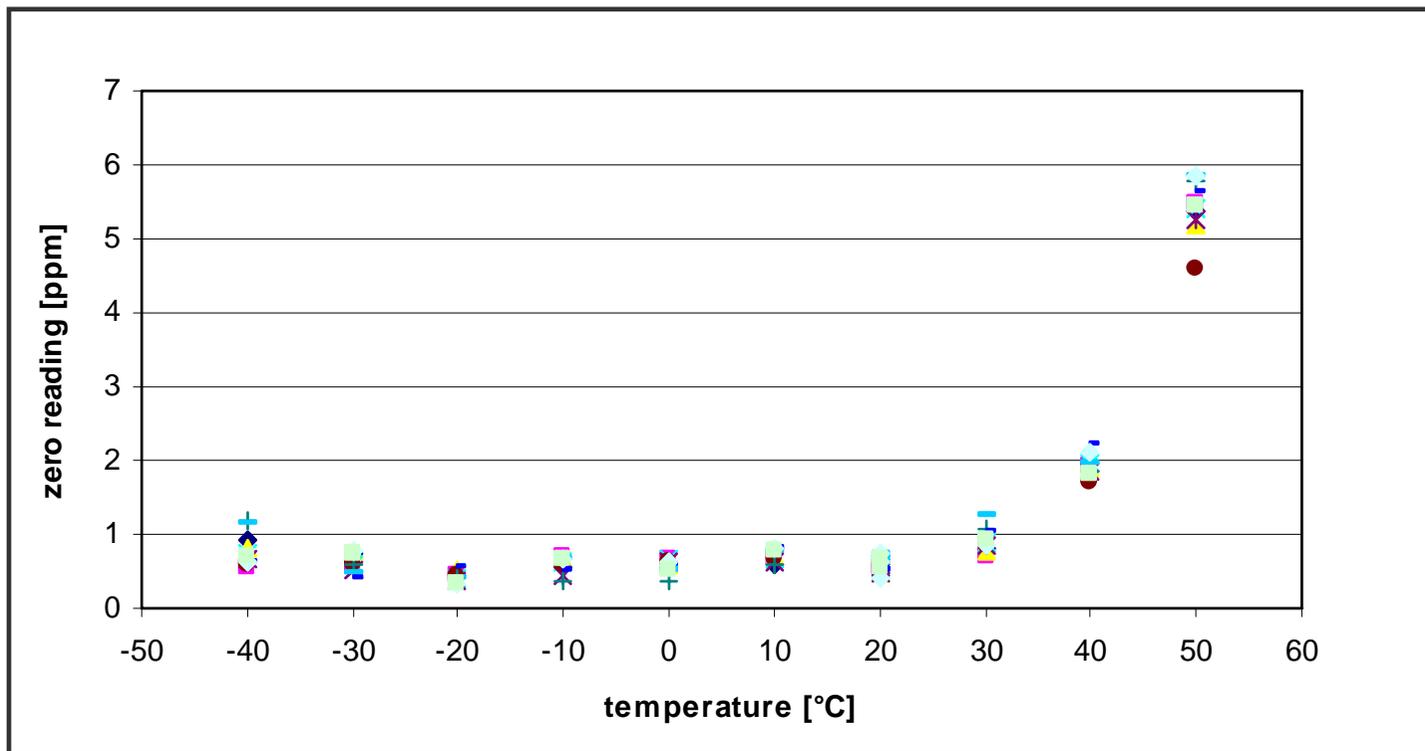
SensoriC deems the data contained herein as factual, and the opinions expressed are those of qualified experts based on the results of tests conducted. The above data can not be used as a warranty provision or representation for which SensoriC assumes legal responsibility. The data are offered solely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



Rev. 09/2006

## SensoriC CO 3E 300

### ZERO READING vs. TEMPERATURE:



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.



Rev. 09/2006

## SensoriC CO 3E 300

### 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.

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.



Rev. 09/2006