

Carbon Monoxide

SensoriC CO 2E 300



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FEATURES

Amperometric 2 electrode sensor cell
Very selective
Highly sensitive
Long lifetime

TYPICAL APPLICATIONS

TLV-monitoring, leakage detection
portable & fixed point applications

PART NUMBER INFORMATION

| | |
|-------------------------|----------------|
| MINI | 0248-024-30009 |
| SENSORIC CLASSIC | 0248-024-30069 |
| CTL 4 series adaptation | 0248-024-30049 |
| CTL 7 series adaptation | 0248-024-30079 |

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

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TECHNICAL SPECIFICATIONS

| | |
|-----------------------------|---|
| Measuring Range | 0–300 ppm |
| Sensitivity Range | 30 nA/ppm \pm 12 nA/ppm |
| Zero Current at 20°C | < \pm 150 nA |
| Resolution at 20°C | < 2 ppm |
| Bias Potential | not required |
| Linearity | < 5% full scale |
| Response Time at 20°C | |
| t50 | < 10 s calculated from 2 min. exposure time |
| t90 | < 35 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 will decrease the sensitivity |
| Sensor Life Expectancy | > 36 months in air |
| Warranty | 24 months |

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CROSS SENSITIVITIES AT 20°C

| Gas | Concentration | Reading [ppm] |
|--------------------|---------------|----------------|
| Acetic Acid | sat. vapor | 0 |
| Alcohols (i.e.IPA) | 1025ppm | 0 ¹ |
| Ammonia | 100 ppm | 0 ¹ |
| Carbon Dioxide | 10% | 0 |
| Chlorine | 1 ppm | 0 |
| Chlorine Dioxide | 1 ppm | 0 |
| Gasoline Vapour | % range | 0 ¹ |
| Hydrogen | 3000 ppm | 1200 |
| Hydrogen Sulfide | 20 ppm | 0 ¹ |
| Nitric Oxide | 100 ppm | 0 |
| Nitrogen Dioxide | 10 ppm | 0 ¹ |
| Sulfur Dioxide | 20 ppm | 0 ¹ |

- 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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