MEMBRAPOR SPECIFICATION SHEET

CO/SF-500-S





MEASUREMENT 3-Electrode Electrochemical **Operation Principle Nominal Range** 0 - 500 ppmMaximum Overload 1'000 ppm To remove acid gases from Inboard Filter flue stream **Output Signal** 250 ± 50 nA/ppm Resolution < 0.2 ppm (Electronics dependent) T90 Response Time < 40 sec Typical Baseline Range -1 ppm to 1 ppm (pure air, 20°C) Maximum Zero Shift 4 ppm (+20°C to +40°C) Repeatability < 2 % of signal **Output Linearity** Linear

ELECTRICAL

Gain

| Rec. Load Resistor | 10 Ohm |
|------------------------------|-----------------|
| Bias (V_Sens-V_Ref) | not recommended |
| Conformity to RoHS directive | RoHS Compliance |

ENVIRONMENTAL

| Relative Humidity Range | 15 % to 90 % R.H. non- condensing |
|-------------------------|--------------------------------------|
| Temperature Range | -20 °C to 50 °C |
| Pressure Range | Atmospheric ± 10% |
| Pressure Coefficient | N.D. |
| Humidity Effect | none |

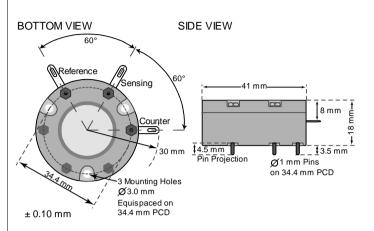
LIFETIME

| Expected Operation Life | 3 years in air |
|--|---------------------------------|
| Expected Long Term Output Drift in air | < 2 % per month |
| Filter Life | N.D. |
| Storage Life | 6 months in container |
| Rec. Storage Temperature | 5 °C – 20 °C |
| Warranty Period | 12 months from date of dispatch |

Performance data conditions: 20 °C, 50% RH, 1013 mbar



Slim-Size Outline Dimensions



MECHANICAL

| Weight | 27 g |
|----------------------|------|
| Position Sensitivity | None |

APPLICATIONS

Continuous Air Quality Monitoring Safety and Environmental Control

CROSS-SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

| Interfering Gas | Cross-Sens. |
|---|-------------|
| | % |
| H ₂ S | 0 |
| H ₂ S SO ₂ NO | 0 |
| NO | 0 |
| NO_2 | 0 |
| NO ₂ H ₂ | < 60 |
| | |

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Carbon Monoxide Gas Sensor in Slim Housing



TEMPERATURE DEPENDENCE

The output of an electrochemical sensor varies with temperature. The graphs below show the variation in output with temperature for this type of sensor. The results are shown in the graphs as a mean for a batch of sensors. The sensitivity dependence is expressed as a percentage of the signal at 20 °C. The shift in baseline is shown in ppm referenced to 20 °C and a relative humidity of 50%.

Please note:

It is highly recommended to acquire the temperature dependence curves with the whole instrument. The sampling system, the humidity, the electronics, the interaction between the electronics and the sensor, all have a significant impact on the temperature dependence of the final measurement reading.

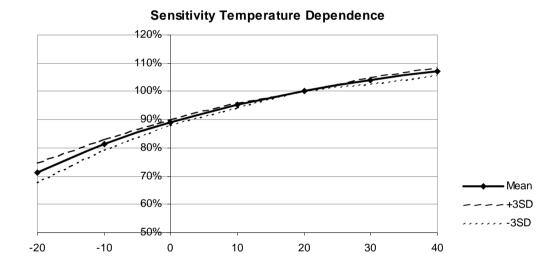


Figure 1: Sensitivity dependence expressed as a percentage of the signal at 20 °C. The result is shown along with confidence intervals corresponding to ±3 times the standard deviation.

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