

SPECIFICATION SHEET FOR CO SENSOR TYPE CO/CFL-4E

4-Electrode Sensor for Carbon Monoxide

PERFORMANCE CHARACTERISTICS

| | |
|---|----------------------------------|
| Nominal Range | 0 – 20 ppm |
| Maximum Overload | 200 ppm |
| Inboard Filter | To remove acid gases |
| Expected Operation Life | 3 years in air |
| Output Signal | 700 ± 120 nA/ppm |
| Resolution | 0.05 ppm |
| Temperature Range | - 40 °C to 50 °C |
| Pressure Range | Atmospheric ± 10% |
| Pressure Coefficient | No data |
| T ₉₀ Response Time | < 40 sec |
| Relative Humidity Range | 15 % to 90 % R.H. non-condensing |
| Raw Baseline Currents (pure air, 20°C) | < 500 nA |
| Calculated Baseline after Compensation ⁽¹⁾ | < 0.1 ppm |
| Maximum Zero Shift (+20°C to +40°C) | < 0.2 ppm ⁽²⁾ |
| Expected Long Term Output Drift | < 2% signal loss/month |
| Recommended Load Resistor | 33 Ohm |
| Bias Voltage | Not recommended |
| Repeatability | < 2 % of signal |
| Output Linearity | Linear |

⁽¹⁾ Compensating the current at the sensing with the one at the auxiliary.

⁽²⁾ Temperature effects on the baseline are reduced significantly with the 4th electrode. The value reflects the estimated error of the calculated baseline.

CROSS-SENSITIVITY DATA

| Interfering Gas | Cross-Sensitivity (%) |
|------------------|-----------------------|
| H ₂ S | 0 |
| SO ₂ | 0 |
| NO | 0 |
| NO ₂ | 0 |
| H ₂ | ~8 |

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

APPLICATIONS

Continuous Air Quality Monitoring

The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within it. The data is given for guidance only. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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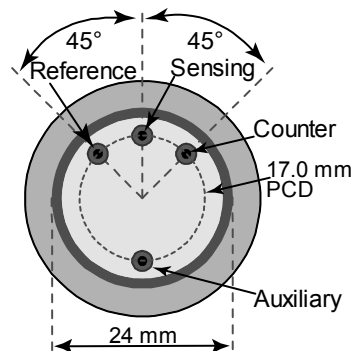
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PHYSICAL CHARACTERISTICS

| | |
|---------------------------------|---------------------------------|
| Weight | ~ 13 g |
| Position Sensitivity | None |
| Storage Life | Six months in container |
| Recommended Storage Temperature | 5 °C – 20 °C |
| Warranty Period | 12 months from date of dispatch |

Compact-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW

