





HCN Gas Sensor in Miniature Housing

Applications

- Discontinuous Measurement
- Safety and Environmental Control
- For Portable Gas Detectors

Measurement

| Operation Principle | 3-Electrode Electrochemical |
|--|-----------------------------|
| Nominal Range | 0 - 50 ppm |
| Maximum Overload | 100 ppm |
| Inboard Filter | - |
| Output Signal | 200 ± 50 nA/ppm |
| Resolution (Electronics dependent) | < 0.2 ppm |
| T90 Response Time | < 20 s |
| Typical Baseline Range (pure air, 20°C) | -0.5 ppm to 2 ppm |
| Maximum Zero Shift (+20°C to +40°C) | 1 ppm |
| Repeatability | < 2 % of signal |
| Output Linearity | Linear |
| Gain (Only applies to 4-Electrode sensors) | |

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Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar







Electrical

| Rec. Load Resistor | 10 - 33 Ω |
|------------------------------|-----------------|
| Bias (V_Sens-V_Ref) | not recommended |
| Conformity to RoHS directive | RoHS Compliance |

Environmental

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

Lifetime

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

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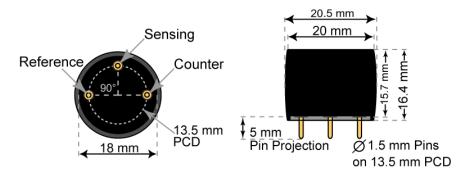






Miniature-Size Outline Dimensions

BOTTOM VIEW SIDE VIEW



± 0.10 mm

Mechanical

Weight 5.5 g

Orientation Any

Housing material Polycarbonate

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Cross Sensitivity Data

The table below does not claim to be complete. Interfering gases should not be used for calibration. Please contact Membrapor AG for further support regarding cross sensitivities.

| Interfering Gas | Concentration [ppm] | Reading [ppm] |
|-------------------------------|---------------------|---------------|
| C ₂ H ₄ | 100 | 0 |
| CO | 100 | ~ 2 |
| H_2 | 100 | ~ 2 |
| H ₂ S | 15 | ~ 25 |
| HBr | 20 | 10 |
| NO | 25 | 0 |
| NO_2 | 5 | ~ -12 |
| SO ₂ | 20 | ~ 38 |

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