





C2H4 Gas Sensor in Miniature Housing

Applications

- · Discontinuous Measurement
- Fruit Ripening
- For Portable Gas Detectors

<u>Measurement</u>

| Operation Principle | 3-Electrode Electrochemical | |
|--|-----------------------------|--|
| Nominal Range | 0 - 10 ppm | |
| Maximum Overload | 20 ppm | |
| Inboard Filter | - | |
| Output Signal | 400 ± 200 nA/ppm | |
| Resolution (Electronics dependent) | < 0.1 ppm | |
| T80 Response Time | < 60 s | |
| Typical Baseline Range (pure air, 20°C) | -2 ppm to 2 ppm | |
| Maximum Zero Shift (+20°C to +40°C) | 2.2 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 | -40 °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 | < 5 % 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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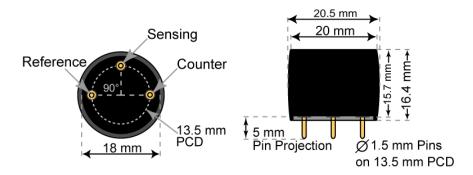






Miniature-Size Outline Dimensions

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] |
|--|---------------------|---------------|
| CO | 10 | < 6 |
| CS ₂ | 100 | ~ 140 |
| Ethanol (C ₂ H ₅ OH) | 30 | < 0.3 |
| Methanol (CH ₃ OH) | | N.D. |

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