

MEMBRAPOR SPECIFICATION SHEET

H₂S/CG-2000



Hydrogen Sulfide Gas Sensor in Compact Housing

MEASUREMENT

| | |
|--|-----------------------------|
| Operation Principle | 3-Electrode Electrochemical |
| Nominal Range | 0 – 2'000 ppm |
| Maximum Overload | 4'000 ppm |
| Inboard Filter | – |
| Output Signal | 50 ± 9 nA/ppm |
| Resolution (Electronics dependent) | < 2 ppm |
| T90 Response Time | < 35 sec |
| Typical Baseline Range (pure air, 20°C) | -20 ppm to 20 ppm |
| Maximum Zero Shift (+20°C to +40°C) | 4 ppm |
| Repeatability | < 2 % of signal |
| Output Linearity | Linear |
| Gain | – |

ELECTRICAL

| | |
|---|-----------------|
| Rec. Load Resistor | 10 Ohm |
| Bias (V _{Sens} -V _{Ref}) | 0 mV |
| Conformity to RoHS directive | RoHS Compliance |

ENVIRONMENTAL

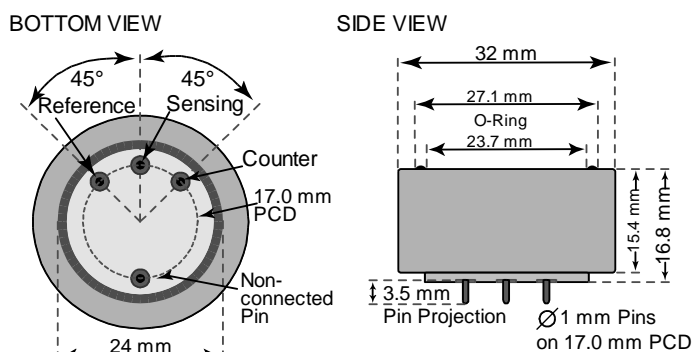
| | |
|-------------------------|----------------------------------|
| Relative Humidity Range | 15 % to 90 % R.H. non-condensing |
| Temperature Range | -20 °C to 50 °C |
| Pressure Range | Atmospheric ± 10% |
| Pressure Coefficient | N.D. |
| Humidity Effect | none |

LIFETIME

| | |
|--|---------------------------------|
| Expected Operation Life | 2 years in air |
| Expected Long Term Output Drift in air | < 2 % 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 |

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

Compact-Size Outline Dimensions



± 0.10 mm

MECHANICAL

| | |
|----------------------|------|
| Weight | 13 g |
| Position Sensitivity | None |

APPLICATIONS

- Discontinuous Measurement
- Biogas Analyzer
- Safety and Environmental Control

CROSS-SENSITIVITY DATA

The table below does not claim to be complete.

| Interfering Gas | Conc. ppm | Reading ppm |
|-----------------|--------------|----------------|
| SO ₂ | 50 | 8 |
| NO ₂ | 5 | -0.1 |
| NO | 35 | 2 |
| Methanol | 300 | 0 |
| HCl | 20 | 0 |
| H ₂ | 1000 | 2 |
| CO | 100 | 1 |

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