

HCI/M-200

Hydrogen Chloride Gas Sensor in Mini Housing



MEASUREMENT

| | |
|--|-----------------------------|
| Operation Principle | 3-Electrode Electrochemical |
| Nominal Range | 0 – 200 ppm |
| Maximum Overload | 400 ppm |
| Inboard Filter | – |
| Output Signal | 80 ± 30 nA/ppm |
| Resolution (Electronics dependent) | < 1.5 ppm |
| T80 Response Time | < 60 sec |
| Typical Baseline Range (pure air, 20°C) | -5 ppm to 5 ppm |
| Maximum Zero Shift (+20°C to +40°C) | N.D. |
| Repeatability | < 2 % of signal |
| Output Linearity | Linear |
| Gain | – |

ELECTRICAL

| | |
|------------------------------|-----------------|
| Rec. Load Resistor | 10 - 20 Ohm |
| Bias (V_Sens-V_Ref) | Not allowed |
| 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

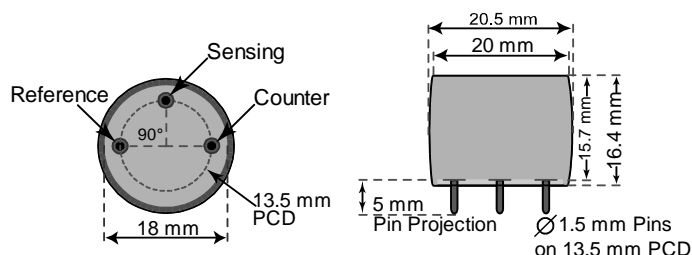
| | |
|---|---------------------------------|
| Expected Operation Life | 2 years in air |
| Expected Long Term Output Drift in air | < 2 % per month |
| Filter Life | – |
| Storage Life | 6 months in container |
| Rec. Storage Temperature | 5 °C – 20 °C |
| Warranty Period | 12 months from date of dispatch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

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

Miniature-Size Outline Dimensions

BOTTOM VIEW

SIDE VIEW



± 0.10 mm

MECHANICAL

| | |
|----------------------|-------|
| Weight | 5.5 g |
| Position Sensitivity | None |

APPLICATIONS

Discontinuous Measurement
Safety and Environmental Control
For Portable Devices

CROSS-SENSITIVITY DATA

The table below does not claim to be complete.

| Interfering Gas | Conc. ppm | Reading ppm |
|-------------------------------|--------------|----------------|
| HBr | 200 | 100 |
| H ₂ | | 0 |
| Isopropanol | | 0 |
| C ₂ H ₄ | 100 | 0 |
| SO ₂ | 100 | 0 |
| H ₂ S | 20 | 31 |
| NO | 25 | 0 |
| NO ₂ | 20 | 0 |
| CO | 1000 | 0 |

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