

SPECIFICATION SHEET for AMMONIA SENSOR with FAST RESPONSE TYPE NH3/MR-100

PERFORMANCE CHARACTERISTICS

| Nominal Range | 0 – 100 ppm |
|-----------------------------------|-----------------------|
| Maximum Overload | 200 ppm |
| Expected Operation Life | 2 years in air |
| Output Signal | 110 ± 30 nA/ppm |
| Resolution | 1 ppm |
| Temperature Range | - 10 ℃ to 40 ℃ |
| Pressure Range | Atmospheric 1) |
| Pressure Coefficient | No data |
| T ₉₀ Response Time | < 40 sec |
| Relative Humidity Range | 15 % to 90 % R.H.non- |
| | condensing |
| Baseline | 0 ppm ± 3 ppm |
| Maximum Zero Shift (+20℃ to +40℃) | -8 ppm |
| Typical Long Term Output Drift | < 5% per 6 months |
| Recommended Load Resistor | 10 Ohm |
| Bias Voltage | Not allowed |
| Repeatability | < 3 % of signal |
| Output Linearity | < 5 % full scale |
| Humidity Effect 2) | < 4 ppm |

¹⁾ no data for deviations

CROSS-SENSITIVITY DATA

| Interfering Gas | Concentration | Reading |
|--------------------------------|---------------|---------|
| CO | 300 ppm | 0 ppm |
| H ₂ | 200 ppm | 0 ppm |
| SO ₂ 3) | 20 ppm | -7 ppm |
| H ₂ S ³⁾ | 20 ppm | 7 ppm |
| NO 3) | 20 ppm | -1 ppm |
| NO ₂ 3) | 20 ppm | -20 ppm |
| Cl ₂ | 20 ppm | -55 ppm |
| CO2 | 2 % | 0 ppm |
| SiH ₄ | 10 ppm | 0 ppm |

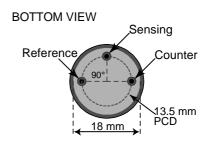
³⁾ Long term exposures and high concentrations may affect the performance characteristics

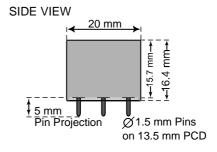
Performance data conditions: 20 ℃, 50% RH and 1013 mbar

PHYSICAL CHARACTERISTICS

| Weight | ~ 5.4 g |
|----------------------|---------------------|
| Position Sensitivity | None |
| Storage Life | Six months in |
| | container |
| Recommended Storage | 5 ℃ – 20 ℃ |
| Temperature | |
| Warranty Period | 12 months from date |
| | of dispatch |

Miniature-Size Outline Dimensions





APPLICATIONS

Leak Detection Safety and Environmental Control For Portable Gas Detectors

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²⁾ abrupt changes in rel. humidity causes a short term transient signal