ЗАКАЗАТЬ: NH3/MR-100 сенсор аммиака 0-100 ppm



# 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
[2] abrupt changes in rel. humidity causes a short term transient signal

## 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 |
| $H_2S$ [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

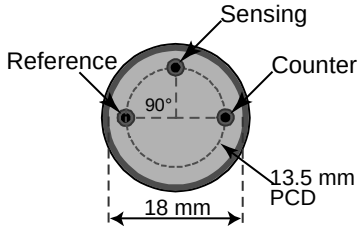
Performance data conditions:
20 ℃, 50% RH and 1013 mbar

## PHYSICAL CHARACTERISTICS

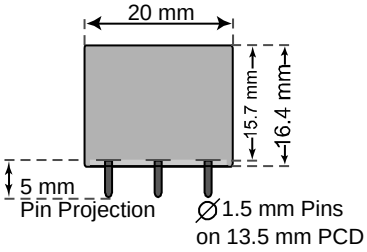
| | |
|---|---|
| Weight | ~ 5.4 g |
| Position Sensitivity | None |
| Storage Life | Six months in container |
| Recommended Storage Temperature | 5 ℃ – 20 ℃ |
| Warranty Period | 12 months from date of dispatch |

**Miniature-Size Outline Dimensions**

BOTTOM VIEW




SIDE VIEW




## APPLICATIONS

Leak Detection
Safety and Environmental Control
For Portable Gas Detectors

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Phone: +41 43 311 72 00
Fax : +41 43 311 72 01

MEMBRAPOR AG
Birkenweg 2
CH-8304 Wallisellen
Switzerland

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