MEMBRAPOR

SPECIFICATION SHEET FOR NO_2 SENSOR TYPE NO2/M-20

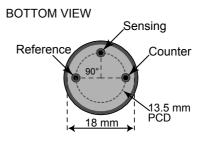
PERFORMANCE CHARACTERISTICS

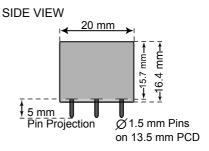
| Nominal Range | 0 – 20 ppm | |
|-------------------------------|---------------------------------------|--|
| Maximum Overload | Nd | |
| Expected Operation Life | 2 years in air | |
| Output Signal | -600 ± 150 nA/ppm | |
| | | |
| Resolution | 0,1 ppm | |
| Temperature Range | - 20 °C to + 50 °C | |
| Pressure Range | Atmospheric ± 10 % | |
| Pressure Coefficient | No data | |
| t ₉₀ Response Time | < 25 sec | |
| Relative Humidity Range | 15 % to 90 % R.H. | |
| | non-condensing | |
| Typical Baseline Range (pure | - 0,2 ppm to + 0,2 ppm | |
| air, 20°C) | | |
| Maximum Zero Shift (+20°C | 0,2 ppm equivalent | |
| to +40 °C) | | |
| Expected Long Term Output | < 2 % signal | |
| Drift | loss/month | |
| Recommended Load Resistor | 33 Ohm | |
| Bias Voltage | Not required | |
| Repeatability | < 2 % of signal | |
| Output Linearity | Linear | |
| | · · · · · · · · · · · · · · · · · · · | |

PHYSICAL CHARACTERISTICS

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

Miniature-Size Outline Dimensions





CROSS-SENSITIVITY DATA

| Interfering Gas | Concentration | Reading |
|-----------------|---------------|---------|
| CO | 300 ppm | 0 ppm |
| SO ₂ | 5 ppm | 0 ppm |
| Cl ₂ | 1 ppm | ~ 1 ppm |

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

APPLICATIONS

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Continuous Air Quality Monitoring Safety and Environmental Control For Portable Gas Detectors

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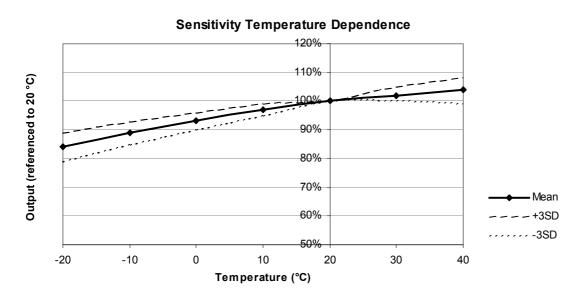
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SPECIFICATION SHEET FOR NO₂ SENSOR TYPE NO2/M-20

TEMPERATURE DEPENDENCE

The output of an electrochemical sensor varies with temperature. The graphs below show the variation in output with temperature for this type of sensor. The results are shown in the graphs as a mean for two batches of sensors, along with confidence intervals corresponding to ± 3 times the standard deviation. The sensitivity dependence is expressed as a percentage of the signal at 20 °C.



The baseline is virtually not affected by changes in temperature.

The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within it. The data is given for guidance only. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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