

SPECIFICATION SHEET FOR NO₂ SENSOR TYPE NO2 /S-20-S

PERFORMANCE CHARACTERISTICS

| | |
|---|-------------------------------------|
| Nominal Range | 0 – 20 ppm |
| Maximum Overload | 200 ppm |
| Expected Operation Life | 2 years in air |
| Output Signal | - 1100 ± 300 nA/ppm |
| Resolution | 0.1 ppm |
| Temperature Range | - 20 °C to 45 °C |
| Pressure Range | Atmospheric ± 10% |
| Pressure Coefficient | No data |
| T ₉₀ Response Time | < 60 sec |
| Relative Humidity Range | 15 % to 90 % R.H. non-condensing |
| Typical Baseline Range (pure air, 20°C) | < 0.1 ppm |
| Maximum Zero Shift (+20°C to +40°C) | - 0.2 ppm |
| Long Term Output Drift | < 2% signal loss/month |
| Recommended Load Resistor | 10 – 33 Ohm |
| Bias Voltage | Not required |
| Repeatability | < 2 % of signal |
| Output Linearity | Linear |
| | |
| | |

PHYSICAL CHARACTERISTICS

| | |
|---------------------------------|---------------------------------|
| Weight | ~ 27 g |
| Position Sensitivity | None |
| Storage Life | Six months in container |
| Recommended Storage Temperature | 5 °C – 20 °C |
| Warranty Period | 12 months from date of dispatch |

CROSS-SENSITIVITY DATA

| Interfering Gas | Concentration | Reading |
|-----------------|---------------|----------------------|
| CO | 300 ppm | 0 ppm |
| SO ₂ | 5 ppm | 0 ppm |
| NO | 35 ppm | 0 ppm ^(*) |
| H ₂ | 300 ppm | 0 ppm |
| Ethylene | 100 ppm | 0 ppm |

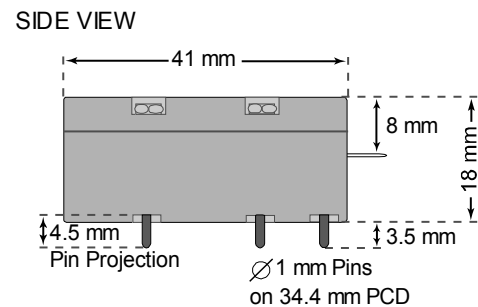
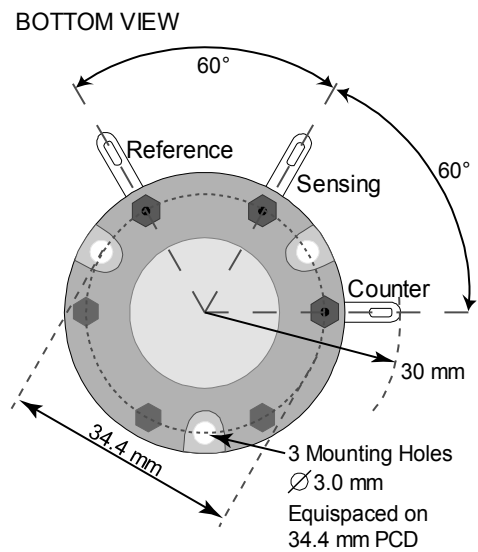
(*) NO readily forms NO₂ in the presence of oxygen

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

APPLICATIONS

Continuous Air Quality Monitoring
Safety and Environmental Control

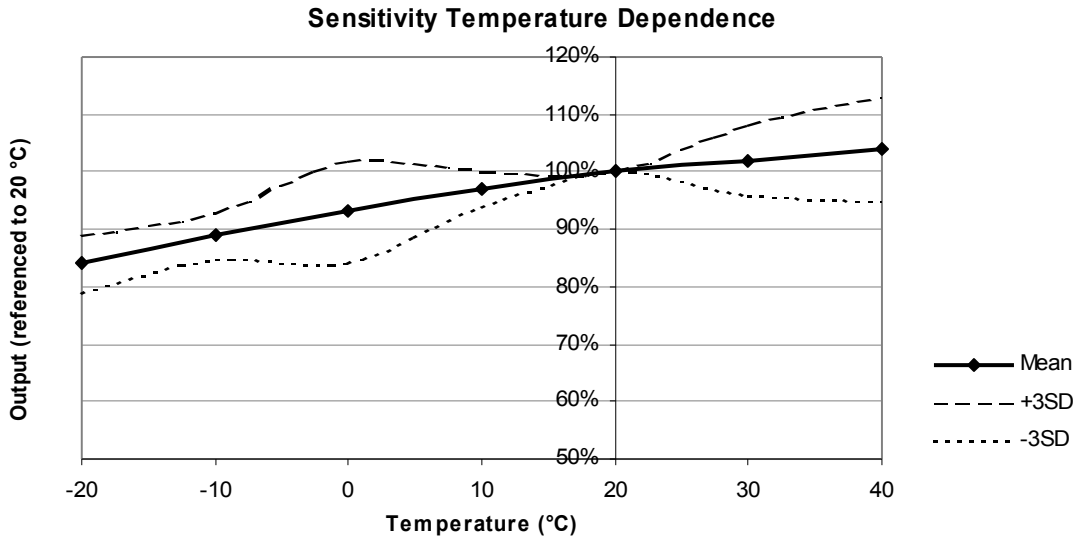
Slim-Size Outline Dimensions



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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 a batch 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.

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