ЗАКАЗАТЬ: NH3/SR-1000 сенсор аммиака 0-1000ppm

MEMBRAPOR

SPECIFICATION SHEET for AMMONIA SENSOR with FAST RESPONSE TYPE NH3/SR-1000

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 1000 ppm
Maximum Overload	2000 ppm
Expected Operation Life	2 years in air
Output Signal	25 ± 8 nA/ppm
Resolution	4 ppm
Temperature Range	- 10 °C to 40 °C
Pressure Range	Atmospheric [1]
Pressure Coefficient	No data
T_{90} Response Time	< 50 sec
Relative Humidity Range	15 % to 90 % R.H.non-condensing
Baseline	0 ppm ± 16 ppm
Maximum Zero Shift (+20°C to +40°C)	-32 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]	< 16 ppm

[1] no data for deviations
[2] aprupt 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

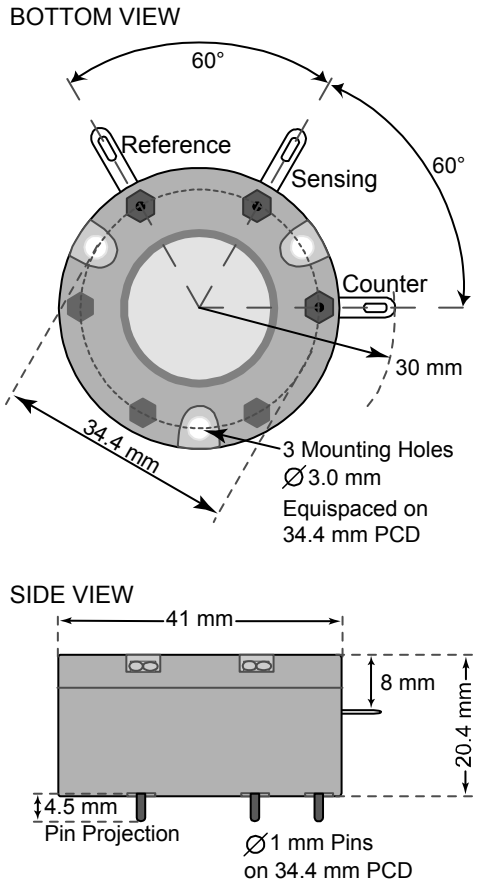
[3] Long term exposures and high concentrations may affect the performance characteristics

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

PHYSICAL CHARACTERISTICS

Weight	~ 32 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

Standard-Size Outline Dimensions



APPLICATIONS

Leak Detection
Safety and Environmental Control

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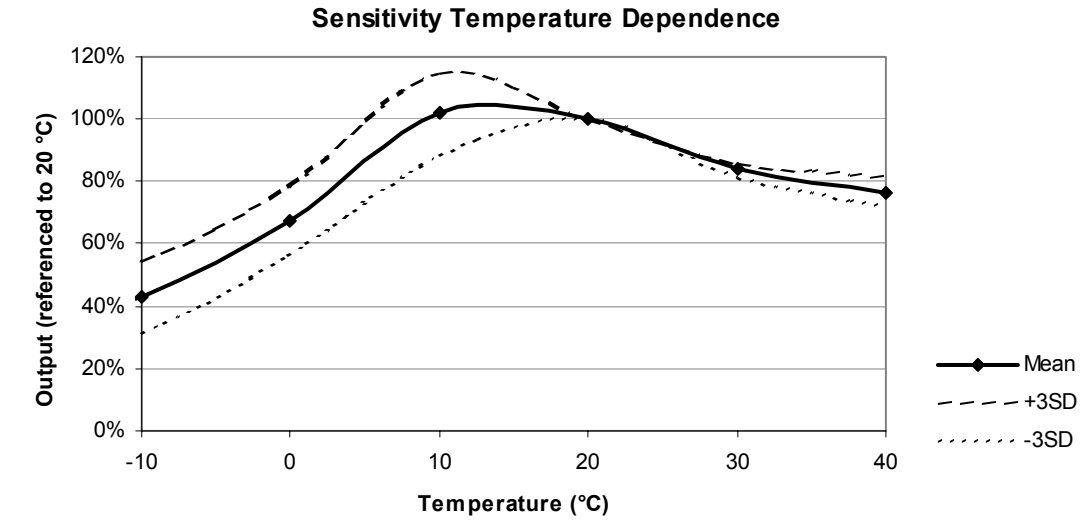
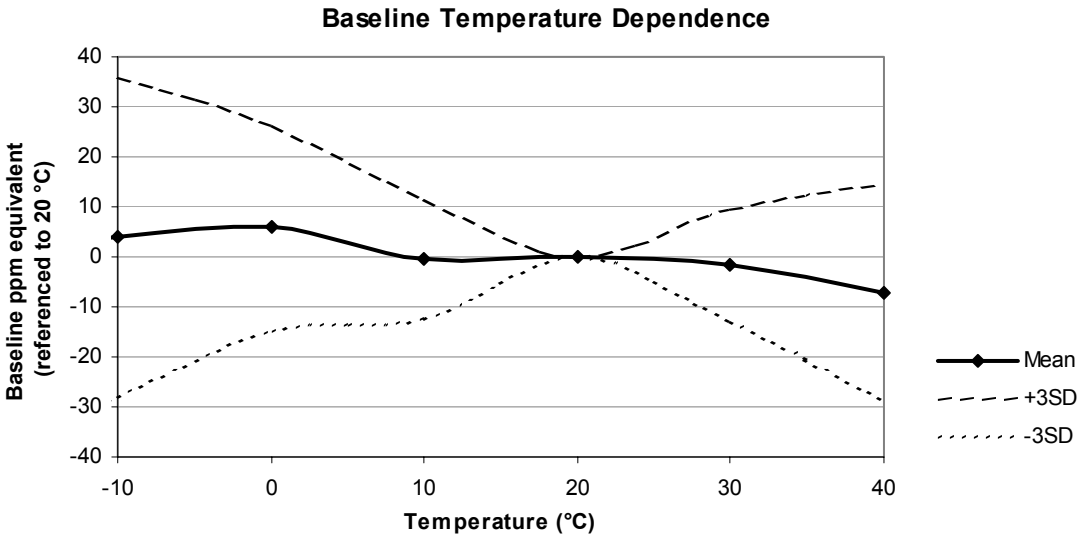
TEMPERATURE DEPENDENCE

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 shift in baseline is shown in ppm referenced to 20 °C.





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