SPECIFICATION SHEET for AMMONIA SENSOR with FAST RESPONSE TYPE NH3/CR-10000

PERFORMANCE CHARACTERISTICS

	-	
Nominal Range	0 – 10'000 ppm	
Maximum Overload	15'000 ppm	
Expected Operation Life	2 years in air	
Output Signal	2.5 ± 0.5 nA/ppm	
Resolution	50 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	-200 ppm to 200 ppm	
Maximum Zero Shift (+20°C to	± 400 ppm	
+40°C)		
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	
Output Encontry		
Humidity Effect ²⁾	< 180 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
СО	1000 ppm	0 ppm
H ₂	1000 ppm	0 ppm
SO ₂ ³⁾	100 ppm	-35 ppm
$H_2S^{-3)}$	100 ppm	35 ppm
NO ³⁾	200 ppm	-10 ppm
NO ₂ ³⁾	100 ppm	-100 ppm
Cl ₂	20 ppm	-55 ppm
CO2	2 %	0 ppm

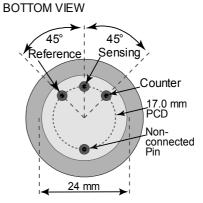
 $^{\scriptscriptstyle 3)}$ Long term exposures and high concentrations may affect the performance characteristics

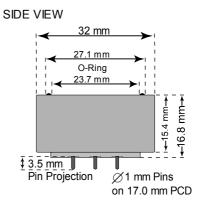
Performance data conditions: 20 $^\circ\text{C},\,50\%$ RH and 1013 mbar

PHYSICAL CHARACTERISTICS

Weight	~ 13 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

Compact-Size Outline Dimensions





APPLICATIONS

Leak Detection Safety and Environmental Control

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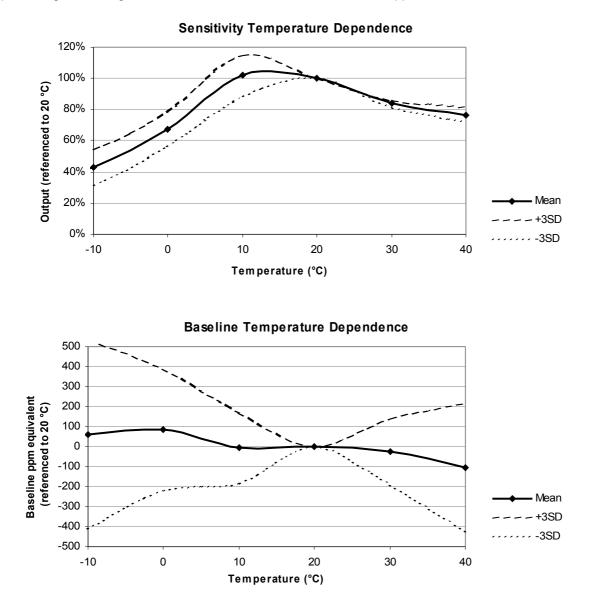
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TEMPERATURE DEPENDENCE

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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