

ELECTROCHEMICAL GAS SENSORS

SPECIFICATION SHEET FOR NO SENSOR TYPE NO/C-100

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 100 ppm
Maximum Overload	ND
Expected Operation Life	3 years in air
Output Signal	550 ± 110 nA/ppm
Resolution	0,5 ppm
Temperature Range	- 20 °C to 45 °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 air, 20°C)	+1 to + 4 ppm ¹⁾
Maximum Zero Shift (+20°C to +40°C)	12 ppm
Long Term Output Drift	< 2% signal loss/month
Recommended Load Resistor	10 Ohm
Bias Voltage	+ 300 mV
Repeatability	< 2 % of signal
Output Linearity	Linear

¹⁾ Sensors not older than a few weeks show typical baseline values of ~ 30 - 40 ppm after 12 h stabilisation in biased operation. After two days the baseline stabilises to the specified value. Sensors older than a few month will stabilise faster.

CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	300 ppm	0 ppm
SO ₂		ND ²⁾
H ₂ S	15 ppm	< 5 ppm
NO ₂	10 ppm	< 3 ppm
H ₂	300 ppm	0 ppm

²⁾ To remove effect of SO₂ use NO/CF-100

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

APPLICATIONS

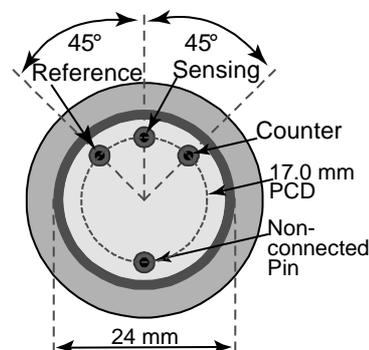
Safety and Environmental Control

PHYSICAL CHARACTERISTICS

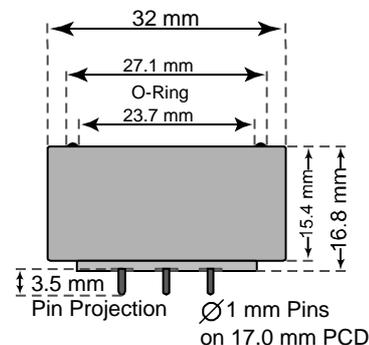
Weight	~ 13 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

Compact-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



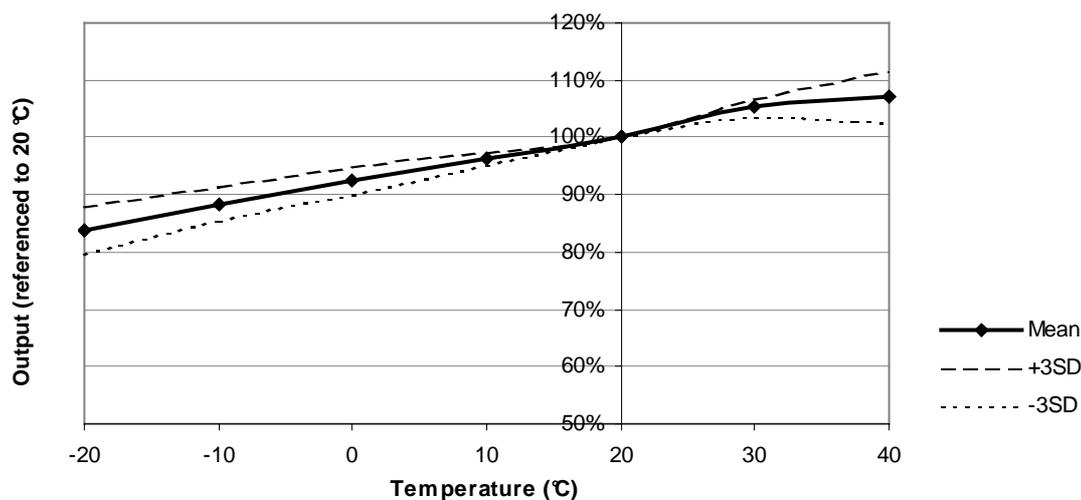
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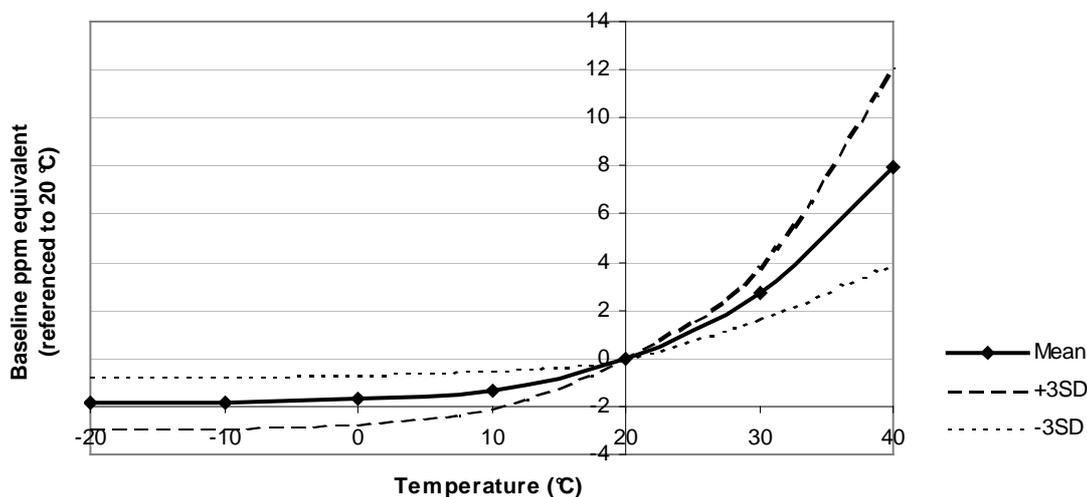
TEMPERATURE DEPENDENCE

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.

Sensitivity Temperature Dependence



Baseline Temperature Dependence



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