SPECIFICATION SHEET FOR NO SENSOR TYPE NO/SF-1000-S

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 1000 ppm
Maximum Overload	2500 ppm
Inboard Filter	To remove effect of SO_2 in flue stream
Expected Operation Life	3 years in air
Output Signal	200 ± 50 nA/ppm
Resolution	0,5 ppm
Temperature Range	- 20 ℃ to 50 ℃
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T_{90} Response Time	< 20 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Typical Baseline Range (pure air, 20℃)	+2 to + 10 ppm [1)]
Maximum Zero Shift (+20℃ to +40℃)	30 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 ~ 20 - 30 ppm after 12 h stabilisation in biassed operation. After two days the baseline stabilises to the specified value. Sensors older than a few month will stabilise faster.

CROSS-SENSITIVITY DATA

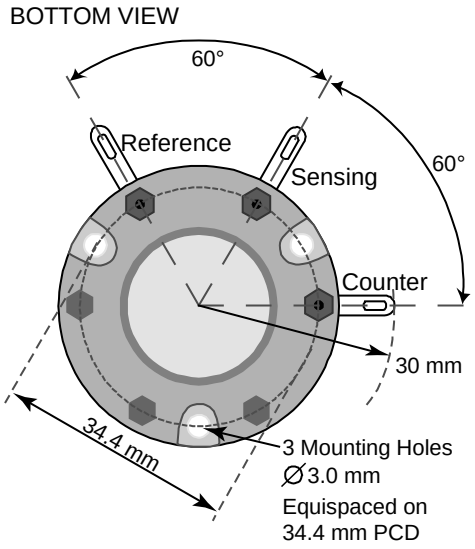
Interfering Gas	Cross-Sensitivity (%)
CO	0
SO_2	0
H_2S	0
NO_2	~ 1
H_2	0

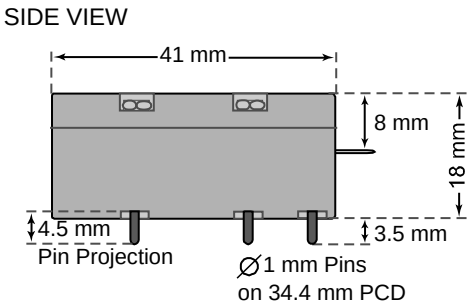
Performance data conditions:
20 ℃, 50% RH and 1013 mbar

PHYSICAL CHARACTERISTICS

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

Slim-Size Outline Dimensions





APPLICATIONS

Stack/ Flue Gas Monitoring
Emission Monitoring

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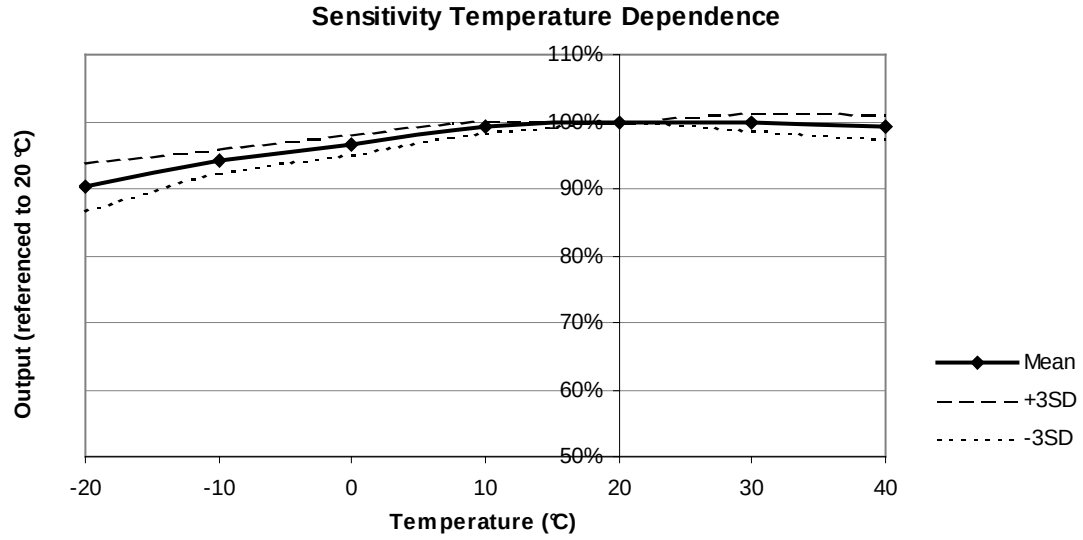
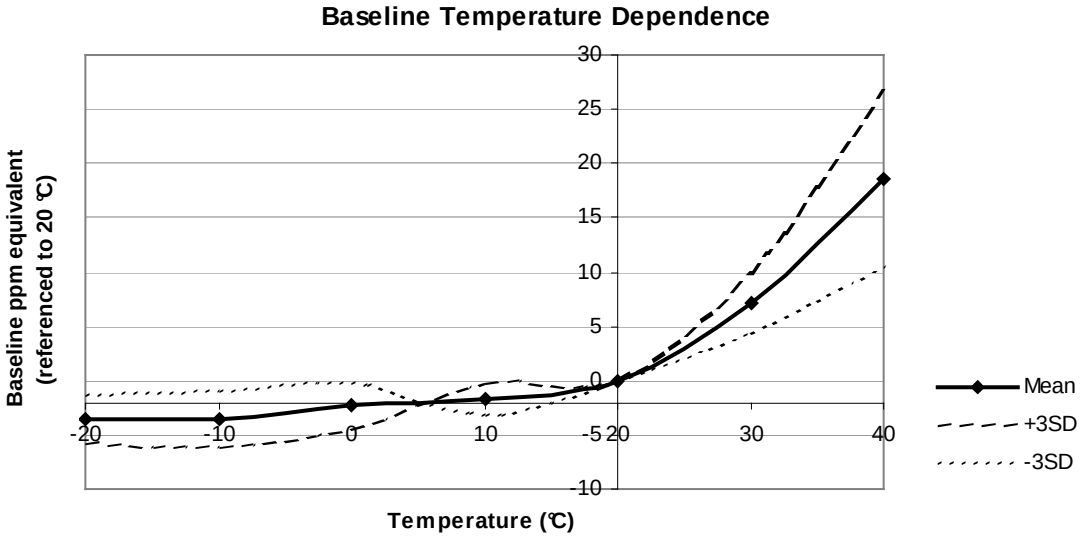
TEMPERATURE DEPENDENCE

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 ℃. The shift in bas eline is shown in ppm referenced to 20 ℃.





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