

SPECIFICATION SHEET FOR FORMALDEHYDE-SENSOR TYPE CH2O/C-1000

PERFORMANCE CHARACTERISTICS

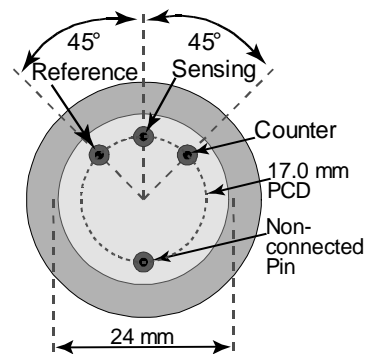
Nominal Range	0 – 1000 ppm
Maximum Overload	2000 ppm
Expected Operation Life	3 years in air
Output Signal	90 ± 20 nA/ppm
Resolution	0.5 ppm
Temperature Range	- 40 °C to 50 °C
Pressure Range	Atmospheric
Pressure Coefficient	No data
T ₆₀ Response Time	< 40 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Typical Baseline Range (pure air, 20°C)	-7.0 ppm to 7.0 ppm
Expected Long Term Output Drift	< 2% signal loss/month
Recommended Load Resistor	10 Ohm
Bias Voltage	Not recommended
Repeatability	< 2 % of signal
Output Linearity	Linear
Humidity Effect	Abrupt changes in rel. humidity causes a short term transient signal

PHYSICAL CHARACTERISTICS

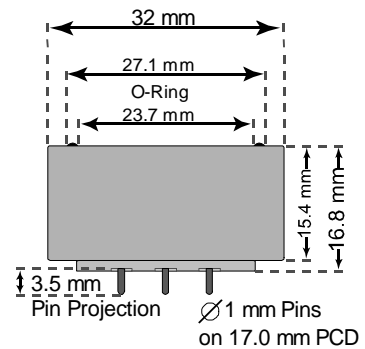
Weight	~ 13 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

Compact-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



CROSS-SENSITIVITY DATA

Interfering Gas	Cross-Sensitivity (%)
H ₂	ND
CO	ND
Interference from other reducing gases, such as alcohols	

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

APPLICATIONS

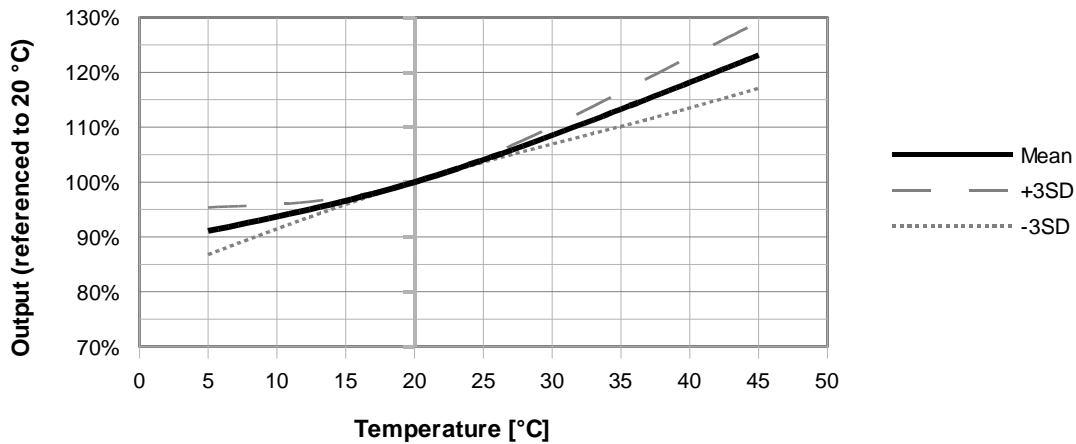
Continuous Air Quality Monitoring

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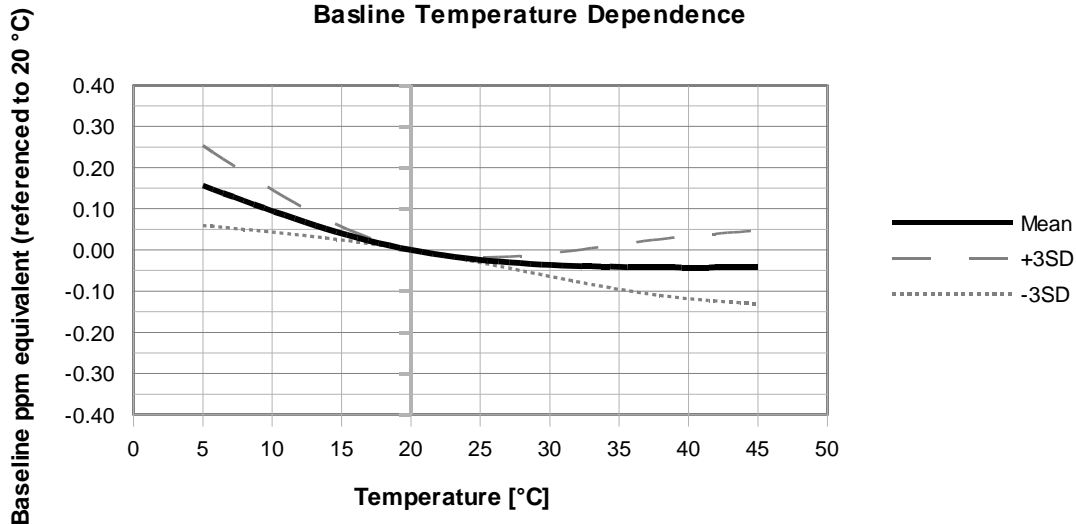
TEMPERATURE DEPENDENCE

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 of several batches 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. A fresh sensor can show a higher baseline shift.

Sensitivity Temperature Dependence



Baseline Temperature Dependence



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