SENSSET
SENSOR SEQUENCE

SSN-GEC-CH2O

Electrochemical formaldehyde sensor

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This sensor is designed for the measurement of Formaldehyde concentration in gas phase. It can be used as the pin-to-pin replacement of the standard electrochemical Formaldehyde sensors which made by the other manufacturers.

Performance Characteristics:

Table 1.

Parameters	Value
Nominal range	0~50ppm
Maximum overload	100ppm
Sensitivity (20°C)	0.55±0.15μA/ppm
Response Time (T90)	≤90s
Zero signal (20°C)	<±0.2μA
Baseline shift (-20°C~50°C)	<1ppm
Resolution	0.1ppm
Linearity	Linear up to 50ppm
Bias voltage	0mV
Environmental	
Temperature range	-20°C~50°C
Pressure range	1±0.1 atm
Humidity range	15%~90%RH non-condensing
Life time	
Long time output drift	<2%signal/month
Recommended storage temp.	10°C~30°C
Expected operating life	2 years in clean air
Storage life	6 moths in original packing
Warranty	12 month
Intrinsic Safety Data	
Max. current at 40000ppm H2	<0.2mA
Max. O/C Voltage	1.3V
Max S/C Current	<1.0A
Physical characteristics	
Housing material	ABS
Weight (nominal)	5g

Table 2.Cross-sensitivity data

Gas	Concentration	Output signal (ppm CH2O equivalent)
Carbon Monoxide	50	3.8
Ethanol	2,000	4.3
Acetic Acid	2,000	-0.3
Ethylene	100	0.6
Methyl Alcohol	100	0.3
Isopropanol	100	0.2

Note: The cross sensitivities include but not limited to the above gases. It may also respond to other gases. The data in the table above may vary from different batches of sensors and the changes of test environment. Calibration using the gases that have the cross sensitivities to this sensor is not recommended.

Mechanical dimension

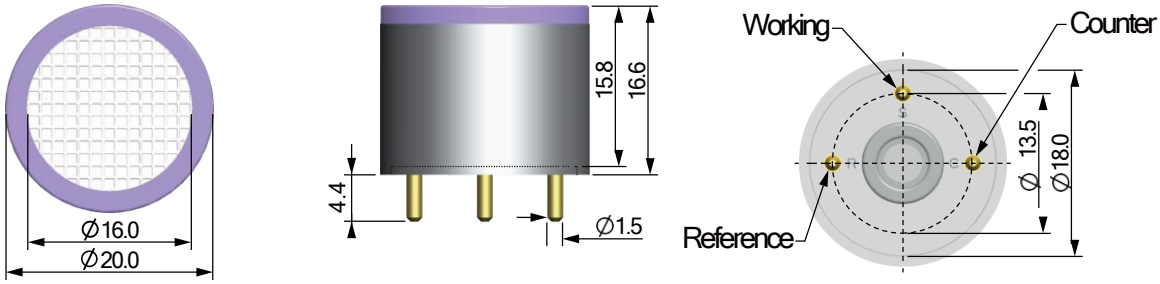

Figure 1. Product dimensions in mm. All tolerances ±0.10mm unless otherwise stated

Temperature data

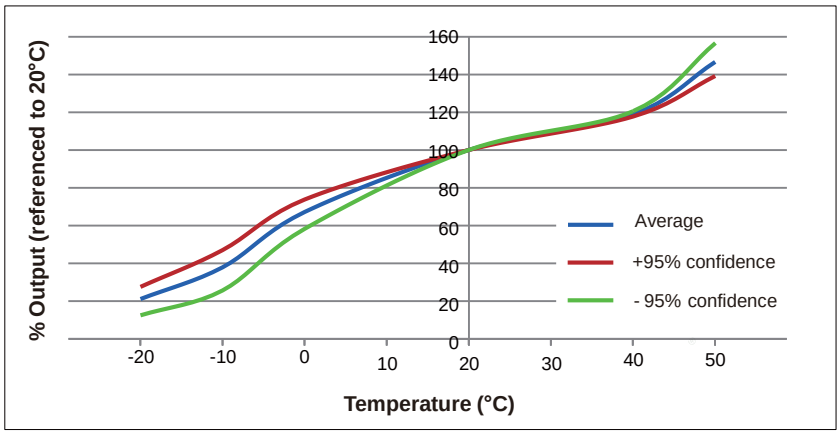

Figure 2. Temperature performance of SSN-GEC-CH2O

Installation

Output signals from the sensor pins are different. Inappropriate use of the pins in product design will affect the sensor functionality. Exposure to high concentrations of solvent vapors should be avoided under any condition. Mechanical overstress may cause deformation or cracks of the plastic enclosure of the sensor. If the sensor is used in extreme environmental conditions, please contact us for more details.

Note

The performance data in this document are conducted by using recommended test circuitry and test environment at 20°C, 50%RH and 1 atm. Sensor performance varies under different environmental conditions.

Safety Note

This sensor is designed to be used in certain instruments for life critical applications. To ensure the sensor functions per its specifications inside the instrument, it is required to read the instrument user's guide carefully and comply with the calibration procedures by using certified target calibration gas before each use. Failure to do so may cause serious injury and fatality. Please do not open the sensor plastic enclosure because the electrolyte and other chemicals stored inside are harmful. It is highly recommended for customers to validate the sensor performance using this document as a reference for their product designs or applications.
This product data sheet is used for reference only.

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Development, production and supply of high-tech sensors