

4NH3-S Ammonia Electrochemical Sensor

(P/N: SEC-4NH3-S)

Technical Specifications

MEASUREMENT

Operating	3-electrode
Principle	electrochemical
Detection Range	0~100 ppm
Sensitivity	40 ± 12nA /ppm
Response Time (T90)	≤40s (typical 16S)
Repeatability	<±2% signal
Linearity	Linear
Long term output Drift	<2% signal/month

ELECTRICAL

Resolution	1 ppm
Recommended Load	5~100 Ω
Bias Voltage	0 mV

ENVIRONMENTAL

Operating Temp. Range	-20°C ~ 50°C
Operating Humidity Range	15% RH ~ 95% RH non-condensing
Operating Pressure Range	800 ~ 1200 mbar

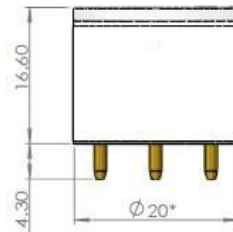
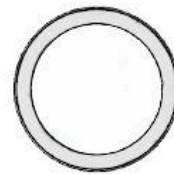
LIFETIME

Recommended Storage Temp.	0°C to +20°C in sealed container
Expected Operating Life	24 months in air
Storage Life	6 months in original packaging
Standard	12 months from date of

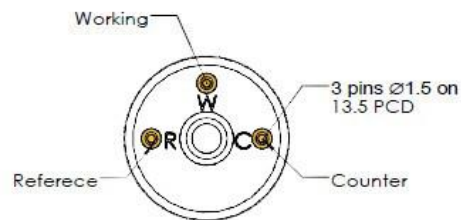
Warranty

despatch

Product Dimensions



*DOES NOT INCLUDE THICKNESS OF LABEL ON LABELLED VARIANTS



All dimensions in millimeters (± 0.1mm)

AERI

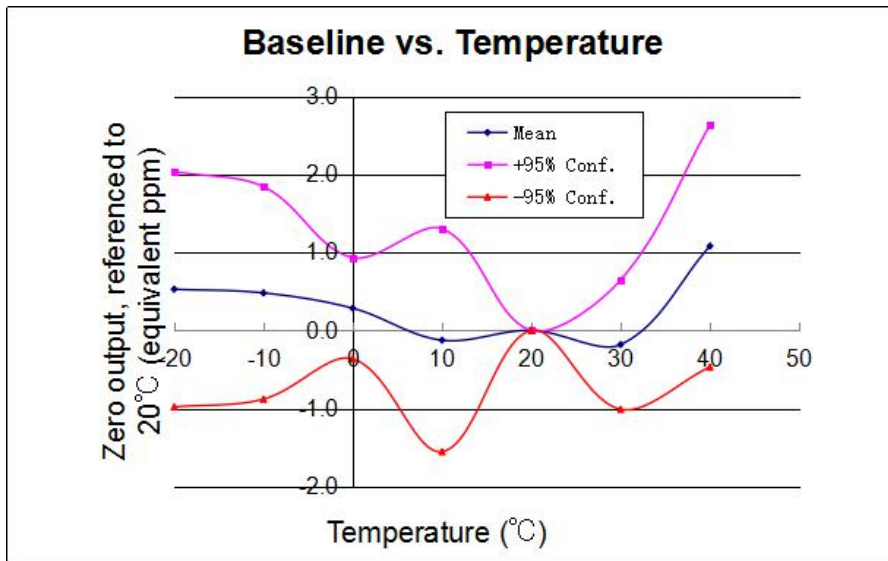
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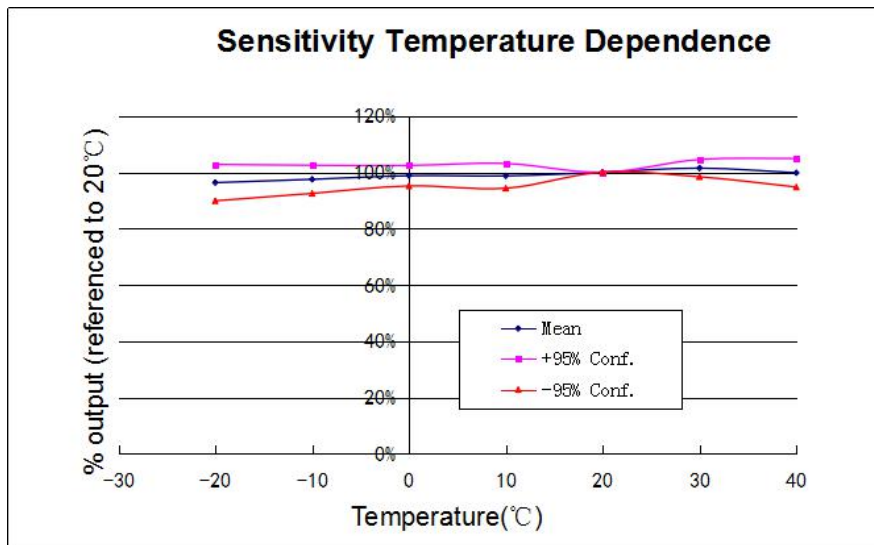
www.aerisensor.com, E-mail info@aeritech.cn

Temperature Data

Baseline drift



Sensitivity Temperature Dependence



Cross-sensitivity Data

Gas	Concentration (ppm)	Output signal (ppm NH3 equivalent)
Carbon Monoxide	100	125
Hydrogen	100	15
Ethanol	1000	0
Carbon Dioxide	1000	0
Nitrogen Dioxide	5	-10
Hydrogen Sulfide	1	5
Chlorine	2	-4.5

Whilst the Gas Sensor are designed to be highly specific to the gas they are intended to measure, they will still respond to some degree to various gases. The table below is not exclusive and other gases not included in the table may still cause a sensor to react. The cross-sensitivity values quoted are based on tests conducted on a small number of sensors. They are intended to indicate sensor response to gases other than the target gas. Sensors may behave differently with changes in ambient conditions and any batch may show significant variation from the values quoted.

SAFETY NOTE:

Connection should be made via a PCB mounting socket. Soldering to pins will void the sensor's warranty.

It is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instruments, and operation;

If the Gas Sensor is removed from application circuit, a jumper should be added on 'R' and 'S' pin.

As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own. The data is given for guidance only. It does not constitute a specification or an offer for sale.

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