

4H2S-S Hydrogen Sulfide Electrochemical Sensor

(P/N: SEC-4H2S-S)

Technical Specifications

MEASUREMENT

Operating Principle	3-electrode electrochemical
Detection Range	0~50 ppm
Maximum Overload	250ppm
Sensitivity	$1.2 \pm 0.3 \mu\text{A/ppm}$
Response Time (T90)	$\leq 25 \text{ s}$ (typical 16S)
Repeatability	$< \pm 2\%$ signal
Linearity	Linear
Long term output Drift	$< 2\%$ signal/month

ELECTRICAL

Resolution	$< 0.05 \text{ ppm}$
Recommended Load	$5 \sim 50 \Omega$
Bias Voltage	0 mV

ENVIRONMENTAL

Operating Temp. Range	$-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$
Operating Humidity Range	15% RH ~ 90% RH non- condensing
Operating Pressure Range	800 ~ 1200 mbar

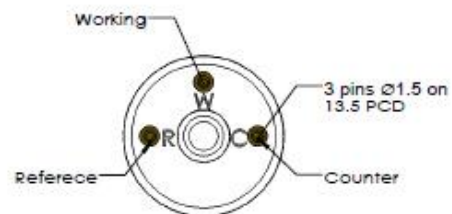
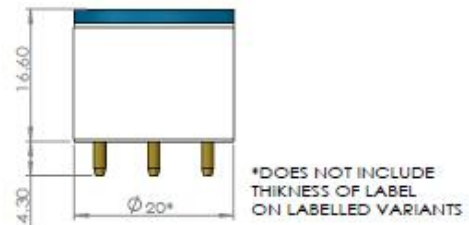
LIFETIME

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	18 months from date of

Warranty

despatch

Product Dimensions

All dimensions in millimeters ($\pm 0.1\text{mm}$)

AERI

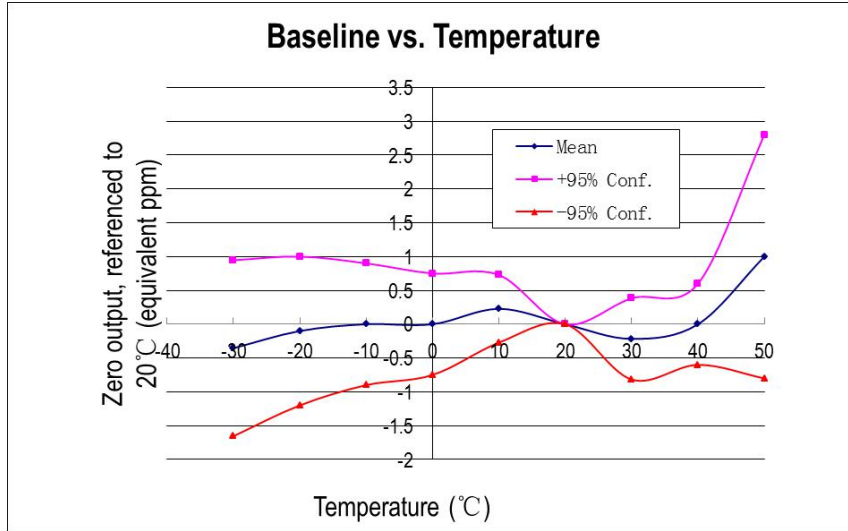
JingZhou Aeritech Co.,Ltd.

Tel +86 18995851100, Fax +86 0716 8499894

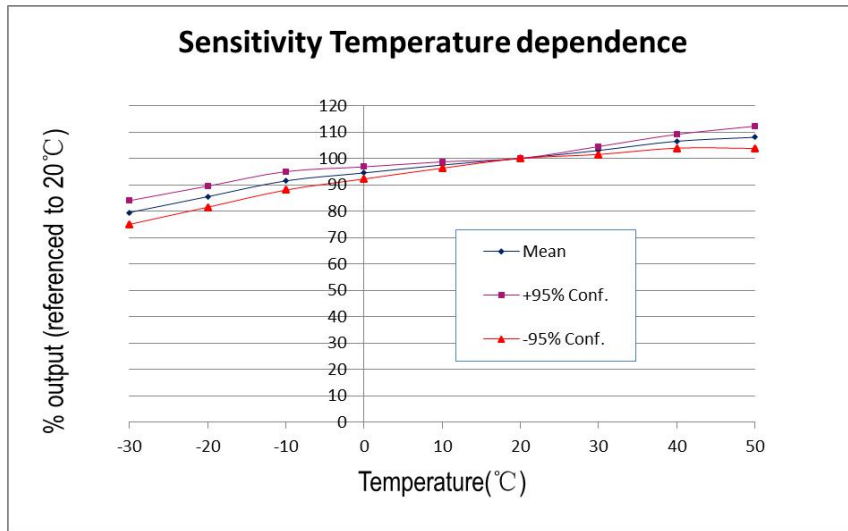
www.aerisensor.com, E-mail info@eritech.cn

Temperature Data

Baseline drift



Sensitivity Temperature Dependence



Cross-sensitivity Data

Gas Concentration Output signal

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	(ppm)	(ppm H ₂ S equivalent)
Carbon Monoxide	200	3
Ammonia	40	0.3
Hydrogen	80	0.2
Sulphur Dioxide	20	2
Nitric Oxide	30	0.6
Nitrogen Dioxide	10	-3

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