4H2-L Hydrogen Electrochemical Sensor

(P/N: SEC-4H2-L)

Technical Specifications

packaging

despatch

MEASUREMENT

Standard 18 months from date of

Operating 3-electrode

electrode

Warranty

Principle electrochemical

Detection Range 0~40000 ppm

Sensitivity 7± 2 nA/ppm

Response Time ≤60 s(typical 35s)

(T90)

Repeatability <±2% signal Linearity Linear

Long term output

2% signal/month

ELECTRICAL

Resolution 70 ppm

Recommende

5~35 Ω

Bias Voltage 0 mV

ENVIRONMENTAL

Operating -30°C ~ 50°C

Temp. Range

Operating

Humidity non-condensing

Range

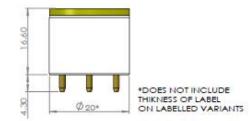
Operating

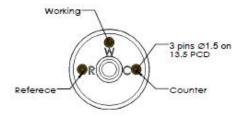
Pressure 800 ~ 1200 mbar

Range

Product Dimensions







All dimensions in millimeters (± 0.1mm)

LIFETIME

Recommende

d Storage 0°C to +20°C in sealed

Temp. container

Expected

Operating 24 months in air

Life

Storage Life 6 months in original

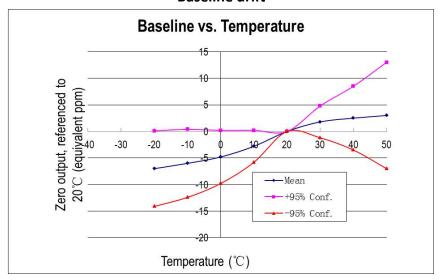


JingZhou Aeritech Co.,Ltd.

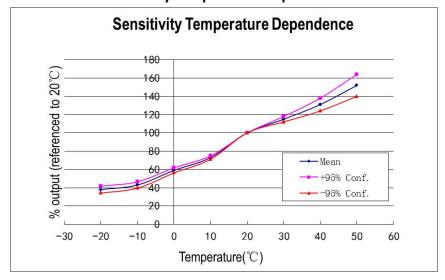
Tel +86 18995851100, Fax +86 0716 8499894 www.aerisensor.com, E-mail info@aeritech.cn

Temperature Data

Baseline drift



Sensitivity Temperature Dependence



Cross-sensitivity Data

Gas	Concentration (ppm)	Output signal (ppm H2 equivalent)
Hydrogen Sulfide	25	0
Sulfur Dioxide	10	0
Chlorine	8	0
Nitric Oxide	20	0
Nitrogen Dioxide	10	0
Carbon Monoxide	50	170

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.

