4H2-M Hydrogen Electrochemical Sensor

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

Technical Specifications		Life		
MEASUREMENT		Storage Life	6 months in original packaging	
Operating	3-electrode	Standard	18 months from date of	
Principle	electrochemical	Warranty	despatch	
Detection Rang	je 0~1000 ppm			
Maximum Overload	2000 ppm	Drodu	Product Dimensions	
Sensitivity	0.02± 0.01 µA/ppm	Flouu		
Response Time	e ≤60 s(typical 35s)			
(T90) Repeatability Linearity Long term outp Drift	<±2% signal Linear out <2% signal/month			
ELECTRICAL Resolution 10 ppm		16.60		
Recommende d Load	5~35 Ω	10		
Bias Voltage	0 mV	mV		
ENVIRONMENTAL		Working		
Operating Temp. Range	-20°C ~ 50°C		Referece Counter	
Operating Humidity Range	15% RH ~ 90% RH non-condensing	Referece		
Operating Pressure Range	800 ~ 1200 mbar	All dimensions in mill	imeters (± 0.1mm)	
LIFETIME Recommende d Storage Temp. Expected	0°C to +20°C in sealed container 24 months in air			

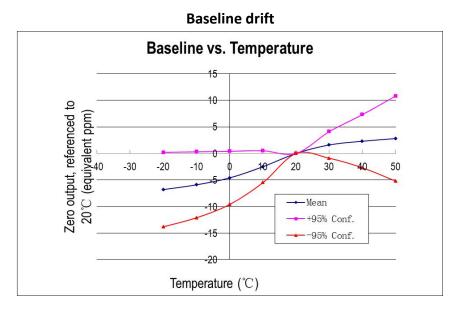
24 months in air

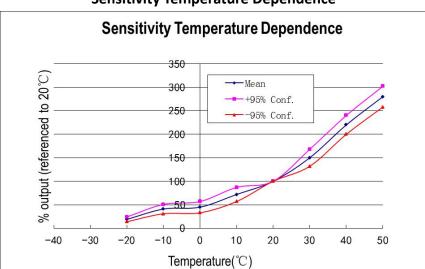


Operating

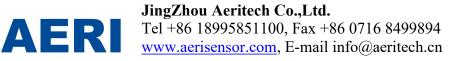
JingZhou Aeritech Co.,Ltd. Tel +86 18995851100, Fax +86 0716 8499894 www.aerisensor.com, E-mail info@aeritech.cn

Temperature Data





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	7
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.



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