4HCN-M Hydrogen Cyanide Electrochemical Sensor

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

Technical Specifications

MEASUREMENT

Operating 3-electrode **Principle** electrochemical **Detection Range** 0~50 ppm

Maximum

Overload

100 ppm

Sensitivity $0.10 \pm 0.02 \,\mu\text{A/ppm}$

Response Time ≤110 s

(T90)

<±2% signal

Linearity Linear

Long term

Repeatability

<2% signal/month output Drift

ELECTRICAL

Resolution 0.2 ppm

Recommende

d Load

5~35 Ω

Bias Voltage 0 mV

ENVIRONMENTAL

Operating

-20°C ~ 50°C

Temp. Range

Operating 15% RH ~ 90% RH non-

Humidity condensing

Range

Operating

800 ~ 1200 mbar **Pressure**

Range

LIFETIME

Recommende

0°C to +20°C in sealed

d Storage

container

Temp. **Expected**

Operating 24 months in air

Life

Storage Life

6 months in original

packaging

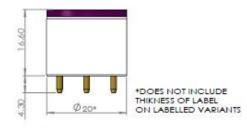
Standard 18 months from date of

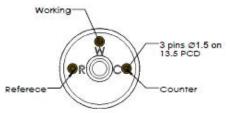
Warranty despatch

Product

Dimensions







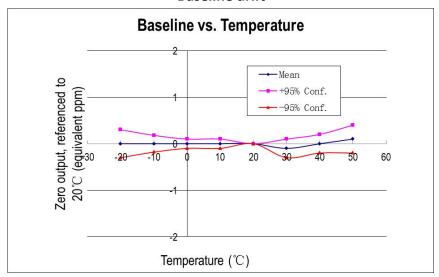
All dimensions in millimeters (± 0.1mm)



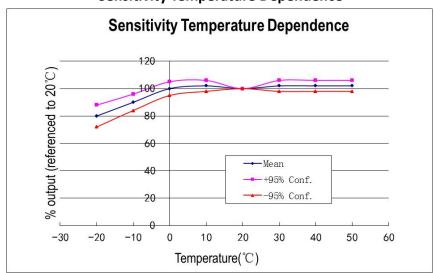
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Temperature Data

Baseline drift



Sensitivity Temperature Dependence



Cross-sensitivity Data

Gas

Concentration

Output signal



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	(ppm)	(ppm HCN equivalent)
Hydrogen Sulfide	10	19
Sulphur Dioxide	10	3
Nitric Oxide	20	0
Nitrogen Dioxide	10	-5
Carbon Monoxide	50	0

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.

