ELECTRICAL Resolution

Recommende

Bias Voltage

Operating

Humidity

Pressure

LIFETIME

d Storage

Temp. Expected

Recommende

Range

Range Operating

Temp. Range Operating

ENVIRONMENTAL

d Load

4SO2-S Sulphur Dioxide Electrochemical Sensor

(P/N: SEC-4SO2-S)

Technical Specifications

MEASUREMENT	
Operating	3-electrode
Principle	electrochemical
Detection Range	0~20 ppm
Maximum	150ppm
Overload	
Sensitivity	0.5 ± 0.1 μA /ppm
Response Time	≤45 s(typical 15s)
(T90)	
Repeatability	<±2% signal
Linearity	Linear
MEASUREMENT	<2% signal/month

0.1 ppm

5~30 Ω

-20°C ~ 50°C

condensing

800 ~ 1200 mbar

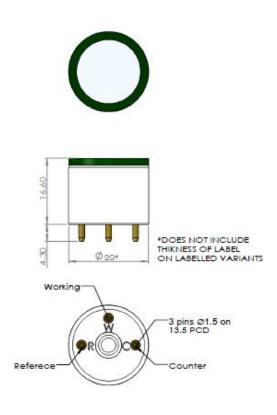
0°C to +20°C in sealed

15% RH ~ 90% RH non-

0mV

Storage Life6 months in original
packagingStandard18 months from date of
WarrantyWarrantydespatch

Product Dimensions



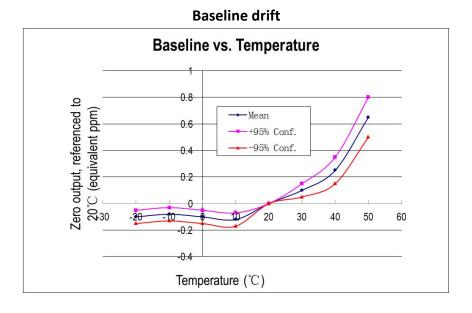
All dimensions in millimeters (± 0.1mm)

Operating	24 months in air
Life	
	Jin Tel

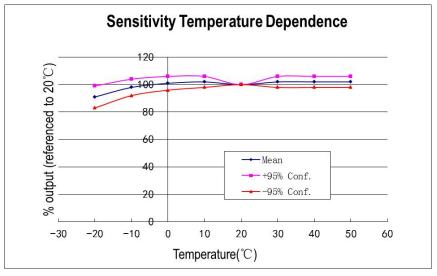
container

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Temperature Data



Sensitivity Temperature Dependence





Output signal Concentration (ppm) Gas (ppm SO2 equivalent) Carbon Monoxide 200 1.5 Nitric Oxide 30 0 5 -5 Nitrogen Dioxide 15 0 Hydrogen Sulfide

Cross-sensitivity Data

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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