4ETO-M Ethylene Oxide Electrochemical Sensor

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

Technical Specifications

packaging

MEASUREMENT

Standard 18 months from date of Warranty despatch

Operating3-electrodePrincipleelectrochemicalDetection Range0~100 ppm

warranty despatch

Sensitivity $0.25 \pm 0.12 \,\mu\text{A}$ /ppm

Response Time ≤120 s

(T90)

Repeatability <±2% signal Linearity Linear

Long term output

<2% signal/month

Drift

ELECTRICAL

Resolution 1 ppm

Recommende

5~30 Ω

d Load

Bias Voltage +300mV

ENVIRONMENTAL

Operating

-20°C ~ 50°C

Temp. Range

Operating

15 ~ 90%RH

Humidity

non-condensing

Range

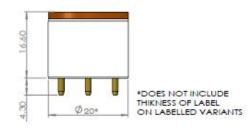
Operating

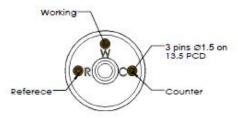
Pressure 800 ~ 1200 mbar

Range

Product Dimensions

O





All dimensions in millimeters (± 0.1mm)

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

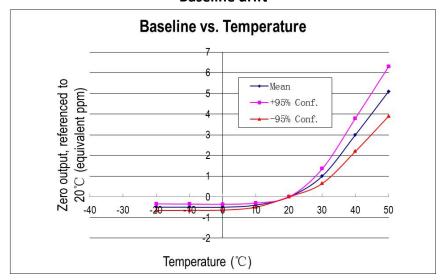
AERI

JingZhou Aeritech Co.,Ltd.

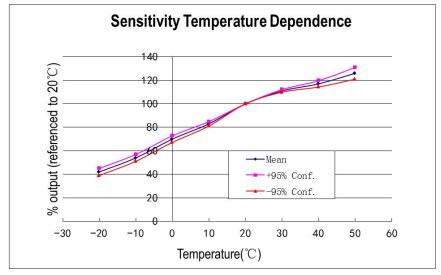
Tel +86 18995851100, Fax +86 0716 8499894 www.aerisensor.com, E-mail info@aeritech.cn

Temperature Data

Baseline drift



Sensitivity Temperature Dependence



Cross-sensitivity Data

Gas	Formula	Concentration	Relative sensitivity to
		(ppm)	ETO
Ethylene Oxide	CH2CH2O	0~100	1.0
Carbon Monoxide	CO	0~200	0.4
Formic Acid	HCOOH	0~200	0.3
Vinyl Chloride	CH2=CHCI	0~100	0.8
Ethylene	CH2=CH2	0~100	1.2
Propene	CH3-CH=CH2	0~100	0.6
Butadiene	CH2=CH-CH=CH2	0~100	1.1
i-Butylene	(CH3)2C=CH2	0~200	0.4
Ethanol	C2H5OH	0~200	0.5
Methanol	СНЗОН	0~100	2.0
i-Propanol	(CH3)2CHOH	0~500	0.2
Formaldehyde	HCHO	0~ 50	1.0
aether	CH3CH2OCH2CH3	0~ 200	0.4

(Note: relative sensitivity= Sensitivity of test gas/Sensitivity of ETO)

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;

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.

