4CH3SH-M Methyl Mercaptan Electrochemical Sensor

(P/N: SEC-4CH3SH-M)

Technical Specifications		Warranty	despatch
		Prod	uct Dimonsions
MEASUREMENT		1100	
Operating	3-electrode		
Principle	electrochemical		
Detection Range	0~10 ppm		
Maximum	20 ppm		
Overload	20 ppm		
Sensitivity	0.70 ± 0.15 μA/ppm		
Response Time	≤30 s		
(T90)			
Repeatability	<±2%signal	093	
Linearity	Linear	1	
Long Term Output Drift	<2% signal loss/month	4	
ELECTRICAL		Working-	7
Resolution	0.1 ppm		A
Recommended	5~50 Ω	(3 pins Ø1.5 on 13.5 PCD
Load Resistor		((•	ROC
Bias Voltage	0 mV	Referece-	Counter
ENVIRONMENTAL			
Operating Temp. Range	-20°C ~ 50°C	All dimensions in n	nillimeters (± 0.1mm)
Operating	15% RH ~ 90% RH		
Humidity	non-condensing		
Operating Pressure Range	800 ~ 1200 mbar		
Recommended	0°C to +20°C in sealed		
Storage Temp.	container		
Expected Operating Life	24 months in air		
Storage Life	6 months in original packaging		
Standard	18 months from date of		



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Temperature Data



Sensitivity Temperature Dependence



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Concentration Output signal Gas (ppm CH3SH equivalent) (ppm) Hydrogen Sulphide 25 45 Sulphur Dioxide 10 4 0 Nitric Oxide 20 Nitrogen Dioxide 10 -5 Hydrogen 1000 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.



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Cross-sensitivity Data