

「与控制 http://www.sens**TECHNICAL⁴⁹INFORMATION®SHEET** NE4-H2S Electrochemical Hydrogen Sulphide Gas Sensor

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General Description

The NE4-H2S is an Electrochemical gas sensor with 3 electrodes for the detection of Hydrogen Sulphide (H₂S) in a variety of gas detection applications.

Exhibiting high performance with long term stability, this compact (20.4mm dia) sensor is suitable for portable Gas Detection Instruments or Fixed Gas Detection heads.

Nemoto's porous electrode technology enables accurate gas detection with high sensitivity. The mechanical design of the sensor gives optimum gas diffusion characteristics, and the hermetically sealed enclosure prevents costly electrolyte leakage.

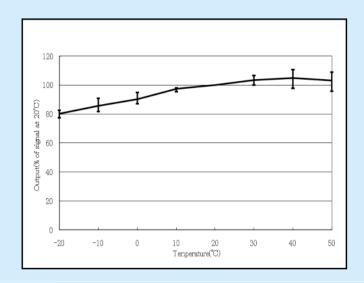


Specifications:

Detectable Gas	Hydrogen Sulphide (H ₂ S)	
Detection Range	0-100ppm	
Maximum overload	500ppm	
Output Current	500 +/- 100 nA/ppm	
Reproducibility (same day)	+/- 2%	
Zero in clean air	<+/- 1ppm equivalent)	
Long term drift:		
Zero	< +/- 1ppm / year	
Span	<10% signal/ year	
Response time (T 90%)	< 30 seconds	
Temperature drift (zero)	<1ppm (-20°C to +50°C)	
Expected lifetime	> 2 years	
Temperature Range:	-20°C to +50°C	
Humidity range (constant)	15-90% RH	
Humidity range intermittent)	0-99% RH	
Pressure	0.9 - 1.1 atm	
Recommended load resistor	10 Ω	
Storage time	6 months	

Test data on drift, poisoning, temperature performance, linearity are available on the Characterisation Document.

Temperature response



Nemoto has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data sheet may be changed without notice

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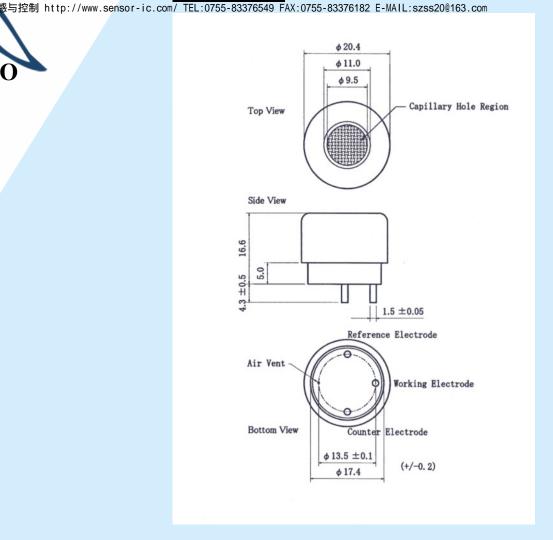
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ne4-h2s.ppp, issue 1 Jan 2013

(Without compromising lifetime)

Dimensions:





Typical Cross-Sensitivities:

Gas	Test Gas Used (ppm in Air)	Test result (ppm equivalent)	% Cross-sensitivity
Hydrogen Sulphide	10	10	100
Carbon Monoxide	100	< 2	< 2
Hydrogen	1000	-3 to + 5	< +/- 1%
Methane	5000	0	0
Carbon Dioxide	5000	0	0
Sulphur Dioxide	30	<4	< 13
Nitric Oxide	10	< -0.5	< -5
Nitrogen Dioxide	10	< -2	< -20
Ammonia	200	0	< -30
Ethylene	100	-1 to +1	< +/- 1
Chlorine	10	0	0

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