

TECHNICAL INFORMATION SHEET NE7-CO-H10000 Electrochemical Carbon Monoxide (CO) Gas Sensor

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General Description

The NE7-CO-H10000 is а new electrochemical gas sensor with 4 electrodes for the detection and monitoring of Carbon monoxide (CO). The sensor is particularly suitable for applications where zero cross-sensitivity to Hydrogen is essential, such as Flue Gas Analysers and Antismoking breath-testers. The performance of the sensor is designed to conform with EN 50379 in Flue Gas Analysers. The NE7-CO-H10000 is related to the NE7-CO-H sensor but is a modified version to extend the range of the sensor to 0-10,000ppm

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 Detection Range Maximum overload **Output Current** Reproducibility (same day) Zero in clean air Long term drift: Zero Span Response time (T 90%) Maximum Temperature drift (zero) Expected lifetime Temperature Range: Humidity range (constant) Humidity range intermittent) Pressure Recommended load resistor Storage time (Without compromising lifetime)

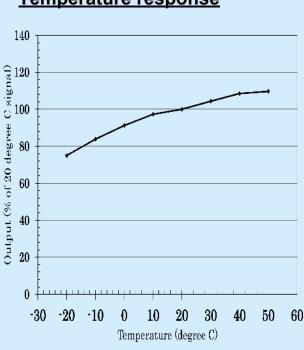
Test data on drift, poisoning, temperature performance, linearity

are available on the Characterisation Document.

Carbon monoxide (CO) 0-10,000ppm 20,000ppm 15 +/- 4 nA/ppm +/- 2% TBA

TBA

< 5% of Signal /year < 40 seconds -10ppm to +50ppm (20°C to +50°C) > 5 years -20°C to +50°C 15-90% RH 0-99% RH 0.9 - 1.1 atm 10 Ω 6 months



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

ne7-co-h10000.ppp, issue 1, August 2015

Contact Information: Europe & Africa Area Asia Area Americas Area

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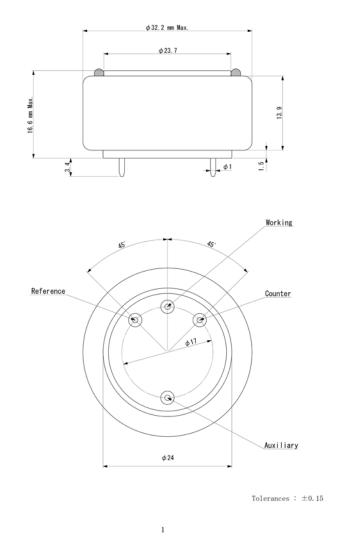
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Temperature response



Dimensions:



Typical Cross-Sensitivities:

Gas	Test Gas Used (ppm in Air)	Test result (ppm equivalent)	% Cross-sensitivity
Carbon Monoxide	100	100	100
Hydrogen sulphide	10	0	0
Hydrogen*	100	< 1	<1
Methane	1000	0	0
Carbon dioxide	10000	0	0
Sulphur dioxide	5	0	0
Nitric oxide	35	< 7	< 20
Nitrogen dioxide	50	-0.5 to +1	< +/- 2
Ethanol	500	0	0

* When Nemoto's recommended circuit is employed

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

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