

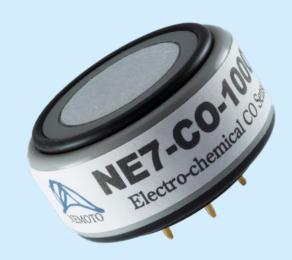
TECHNICAL INFORMATION SHEET NE7-CO-H Electrochemical Carbon Monoxide (CO) Gas Sensor

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General Description

The NE7-CO-H is new electrochemical gas sensor with 4 electrodes for the detection 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.

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.



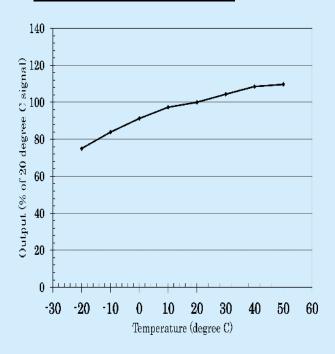
Specifications:

Detectable Gas Detection Range Maximum overload **Output Current** Reproducibility (same day) Zero in clean air at 20°C Long term sensitivity drift: 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)

Carbon monoxide (CO) 0-1000ppm 2000ppm 100 +/- 20 nA/ppm +/- 1% <5ppm equivalent < 5% Signal / Year < 35 seconds -3ppm to +15ppm (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

Temperature response



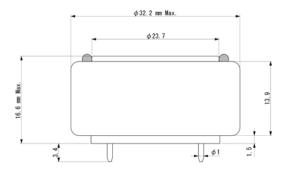
Test data on drift, poisoning, temperature performance, linearity are available on the Characterisation Document.

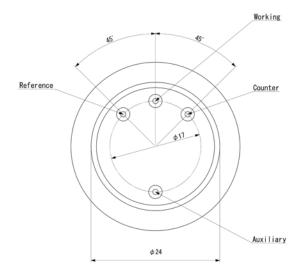
Nemoto has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data sheet may be changed without notice

ne7-co-h.ppp, issue 2, August 2015



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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Tolerances : ± 0.15

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