

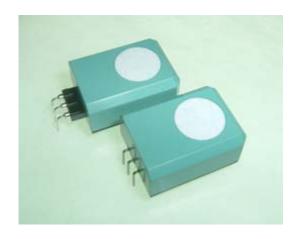








TECHNICAL INFORMATION SHEET: NEMOTO NT-CO-6D Electrochemical Carbon Monoxide Sensor



General Description

The NT-CO-6D is a new generation electrochemical gas sensor with 3 electrodes for the detection of Carbon monoxide (CO). Designed specifically for use in the latest disposable industrial gas alarms, the NT-CO-6D combines cost effectiveness and high performance in a design conscious package.

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.

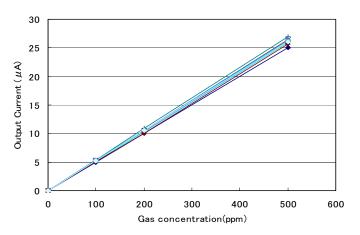
Specifications NT-CO-6D

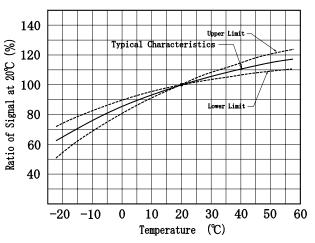
Detectable gas: Carbon Monoxide Detection range: 0 - 200 ppmMaximum range (short periods) 500 ppm Output current: 50 +/- 10 nA/ppm Reproducibility: +/- 2% Zero in clean air: <+/-5ppm equivalent Output drift in air: < 20%/year Response time $(T_{90\%})$: < 30 seconds Temperature drift (zero) <10ppm (-20to +50°C) Operating lifetime*: 6-months

Operating conditions:

Operating temperature: -20°C to + 50°C Humidity range (constant) 15-90% RH Humidity range (intermittent) 0-99%% RH Pressure: 0.9 - 1.1 atm Recommended resistor: 10 ohms Bias voltage: Not required Recommended Storage temp 0-20°C Storage time*: 6 months (*without compromising lifetime)

Linearity & Temperature Profile:





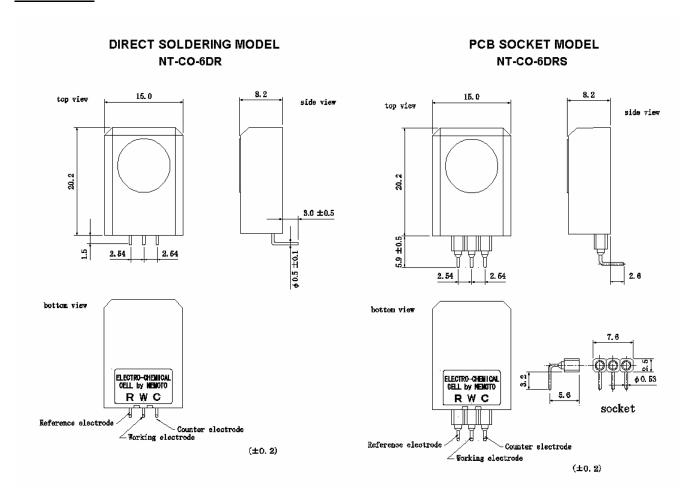
ds-ntco6d.doc, issue 2, Feb 2006



Typical Cross-Sensitivities:

Gas	Test Gas Used (ppm)	CO Concentration Equivalent (ppm)	% Cross Sensitivity
Carbon monoxide	100	100	100
Hydrogen sulphide	10	0	0
Hydrogen	500	200	40
Methane	5000	0	0
Carbon dioxide	5000	0	0
Sulphur dioxide	25	0	0
Nitric oxide	30	0	0
Nitrogen dioxide	30	<10	<30
Ammonia	100	0	0
Ethyl Acetate	200	0	0
Iso-Butane	2500	0	0

Dimensions:



ds-ntcp6d.doc, issue 2, Feb 2006

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