TECHNICAL INFORMATION SHEET:
NAP-505 Electrochemical Carbon Monoxide Sensor

General Description:
The NAP-505 Gas Sensor is a new, low-cost 3 Electrode Electrochemical cell designed for the detection and measurement of carbon monoxide in the range 0-1000 ppm, in domestic carbon monoxide detectors, fire detectors and air quality monitors.

Features:
- 3-Electrode design for greater stability
- Compact, leak-proof enclosure
- Resistant to shocks and vibration
- Terminals may be soldered
- Linear Output
- Highly specific to target gas
- Unaffected by humidity
- Very low long term drift
- Low power consumption

Specifications NAP-505:
- Detectable gas: Carbon monoxide
- Detection range: 0 – 1000 ppm
- Output current: 40nA/ppm, +/- 10nA
- Repeatability: +/- 2%
- Zero output in clean air: less than +/-5ppm
- Response time (T90%): < 30 seconds
- Temperature drift (zero) <10ppm (-20 to +50°C)
- Long term output drift: <5% per year
- Expected lifetime*: More than 5 years
- Weight: 2.6g

* measured as time for sensitivity to be less than 40% of original output.

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 load resistance: 10 ohms
- Bias voltage: Not required
- Recommended storage temperature 0-20°C
- Recommended storage time 6 months

Further performance data and information on operating characteristics can be found in the Characterisation Document NAP505-CD

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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**Direct Soldering Model**

**NAP-505R (Right-Angled Solder Pin)**

**NAP-505S (Straight Solder Pin)**

**Socket Model**

**NAP-505RS (Right-Angled Socket)**

**NAP-505SS (Straight Socket)**

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