

TECHNICAL INFORMATION SHEET: NT-NH3-1000 Electrochemical Ammonia Sensor



General Description

The NT-NH3-1000 is a new electrochemical gas sensor with 3 electrodes for the detection of Ammonia (NH_3) in a variety of gas detection applications. Exhibiting high performance with long-term stability, this compact (20.4mm dia) sensor is suitable for 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 NT-NH3-1000

from 5 min exposure

Temperature drift (zero) <75ppm (-30to +50°C) Expected lifetime: 2 years

Operating conditions:

Operating temperature: -30°C to + 50°C Humidity range 15-90% RH

(constant)

Pressure: 1 atm +/- 10%
Recommended resistor: 10 ohms
Bias voltage: Not required
Position Sensitivity None
Recommended Storage 0-20°C

temp

Storage time <6 months

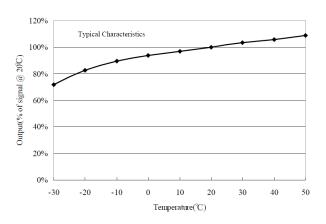
(without compromising

lifetime)

Physical Characteristics

Case material PPO
Cap Color Purple
Weight 5g (approx.)

Typical Temperature Dependence



Further performance data and information on operating characteristics will be available in the Characterisation Document CD-NT-NH3-1000

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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Typical Cross-Sensitivities:

Gas	Test Gas Used (ppm)	NH ₃ Concentration Equivalent (ppm)	% Cross Sensitivity
Ammonia	1000	1000	100
Carbon Monoxide	1000	-50	_5
Carbon dioxide	5000	0	0
Hydrogen	1000	<-150	<-15
Hydrogen sulphide	100	<150	<150
Sulphur dioxide	100	<150	<150
Ethylene	1000	0	0
Methane	5000	0	0
Nitric oxide	100	0	0
Nitrogen dioxide	100	0	0
Ethanol	200	0	0
Chlorine	10	0	0

Dimensions:

