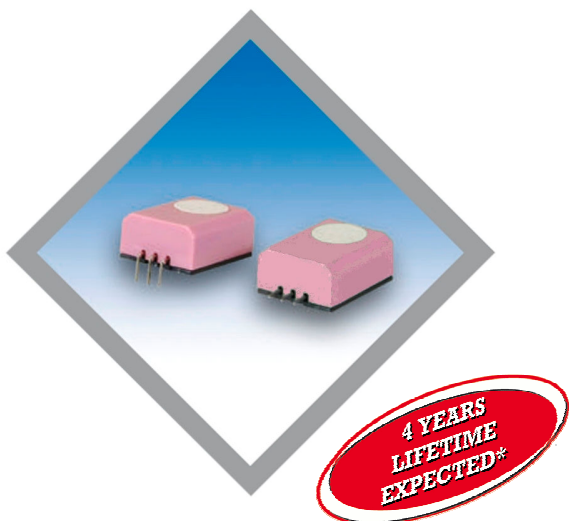




TECHNICAL INFORMATION SHEET: NT-NO2-2F Electrochemical Nitrogen Dioxide Sensor



General Description

The NT-NO2-2F is an electrochemical gas sensor with 3 electrodes for the detection of Nitrogen Dioxide (NO₂) in a variety of gas detection applications. Exhibiting high performance at a low cost, this flat and small sensor is especially suitable for use in underground car parks.

Nemototech'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.

Nemototech 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.

Further performance data and information on operating characteristics will be available on the Characterisation Document nt-no2-2f-CD.doc.

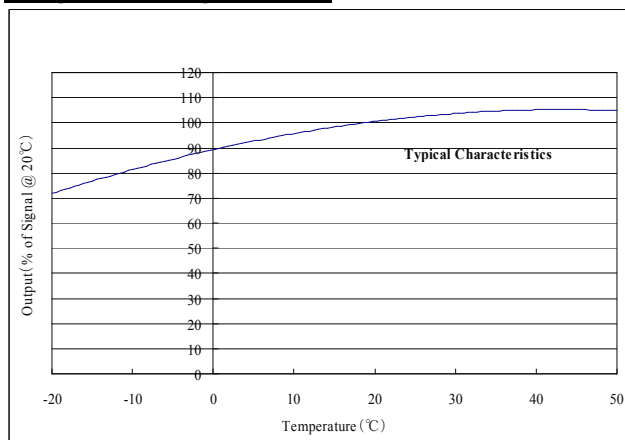
Specifications NT-NO2-2F

Detectable gas:	Nitrogen Dioxide
Detection range:	0 – 20 ppm
Maximum range (short periods)	100 ppm
Output current:	0.15± 0.03µA/ppm (negative signal)
Resolution:	0.2 ppm
Repeatability:	+/- 2%
Zero in clean air:	+/-0.5 ppm equivalent
Output drift in air:	<15% / year
Response time (T _{90%}):	<25 sec (NO ₂ : 5 ppm)
Expected lifetime:	4 years

Operating conditions:

Operating temperature:	-20°C to + 50°C
Humidity range (constant)	15-90% RH
Pressure:	1 atm +/- 10%
Recommended resistor:	10 ohms
Bias voltage:	Not required
Position Sensitivity	None
Recommended Storage temp	0-20°C
Storage time (without compromising lifetime)	<6 months

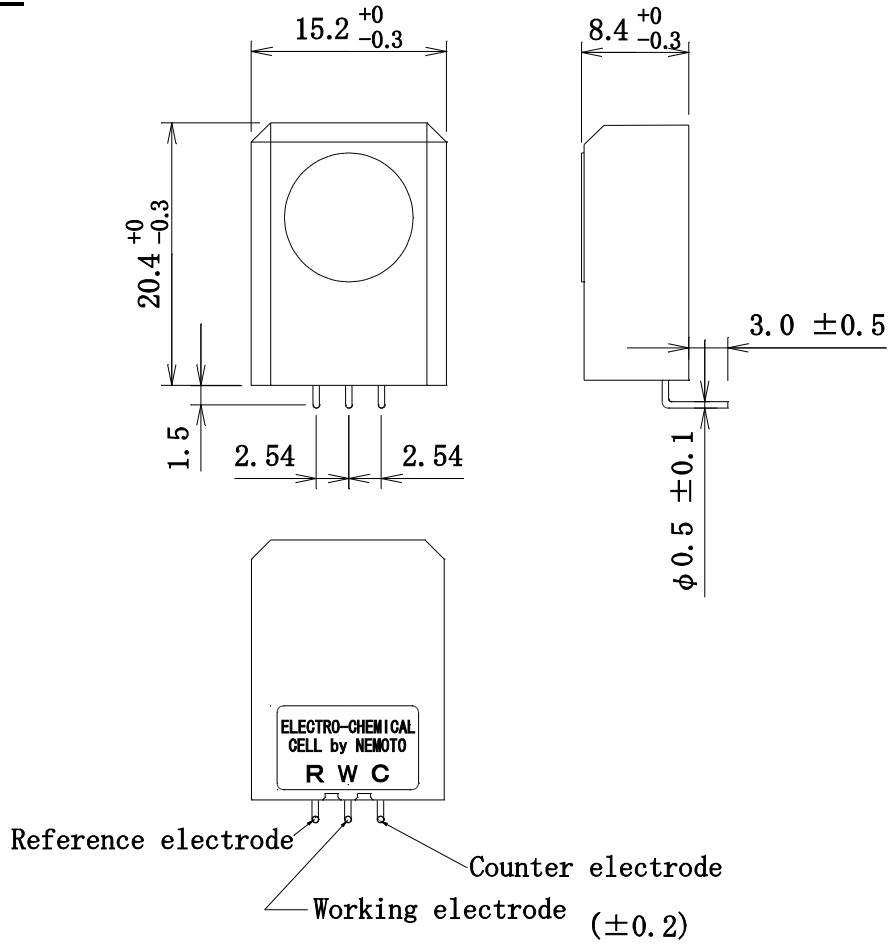
Temperature Dependence:



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Dimensions:



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