

Premium Line

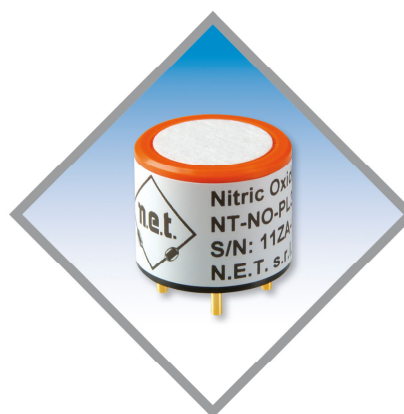
NT-NO-PL300

Electrochemical Nitric Oxide Sensor

Description

The NT-NO-PL300 is a new electrochemical gas sensor with 3 electrodes for detection of Nitric Oxide (NO) in a variety of gas detection applications. Exhibiting high performance with long-term stability, this compact sensor (20.4 mm diameter) is suitable for both portable and fixed gas detection instruments.

The 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 pre-



Technical Specifications

Detectable Gas:	Nitric Oxide
Detection Range:	0 – 300 ppm
Maximum Overload:	1000 ppm
Output Signal:	400 ± 80 nA/ppm
Resolution:	0.5 ppm
Repeatability:	± 2 %
Typical Baseline Range: (pure air)	< 3 ppm
Typical Response Time (t ₉₀):	< 40 sec
Baseline Shift: (- 20 ~ 40 degree C)	< 4 ppm
Long Term Output Drift:	< 2%/month
Expected Life Time:	> 2 years
Weight:	Approximately 4.5 g

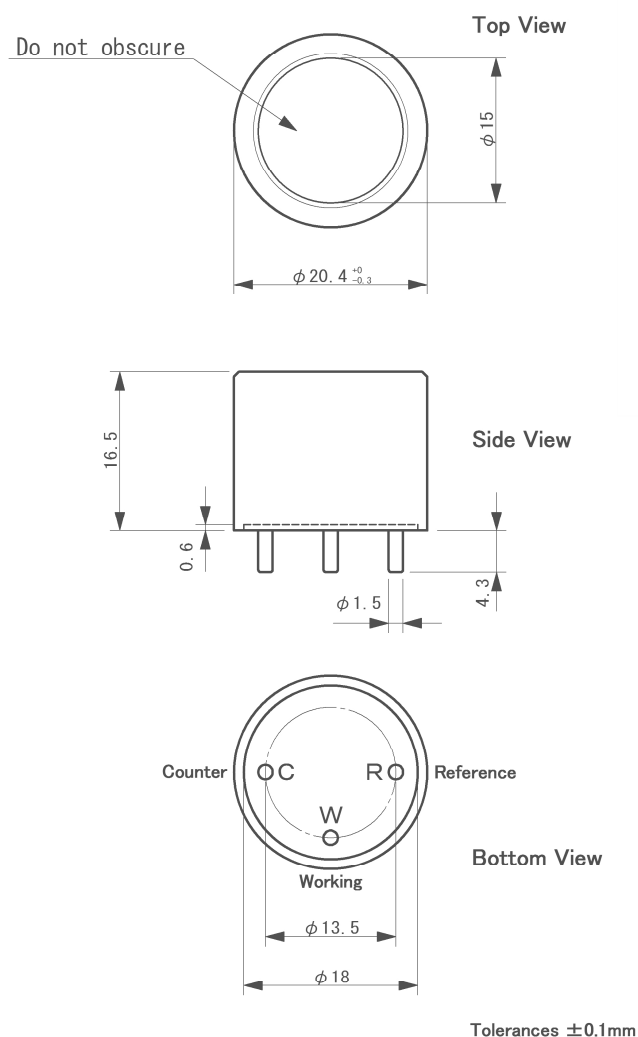
Operating conditions

Operating Temperature:	-20°C to + 50°C
Operating Humidity:	15 to 90 % RH
Operating Pressure Range:	1 atm ± 10 %
Recommended Load Resistor:	10 Ω
Bias Voltage:	+300 mV
Position Sensitivity:	None
Recommended Storage Temp.:	0-20°C
Storage Life:	< 6 months

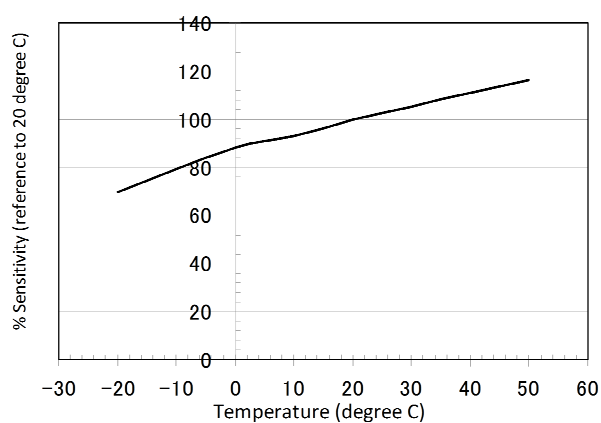
Typical cross sensitivities

Gas	Test Gas Concentration (ppm)	Typical NO Concentration Equivalent (ppm)
Nitric Oxide	100	100
Carbon Monoxide	300	0
Carbon Dioxide	5000	0
Hydrogen	1000	0
Nitrogen Dioxide	5	< 1
Chlorine	10	0
Hydrogen Sulfide	15	< 4
Sulphur Dioxide	20	0
Ammonia	20	0

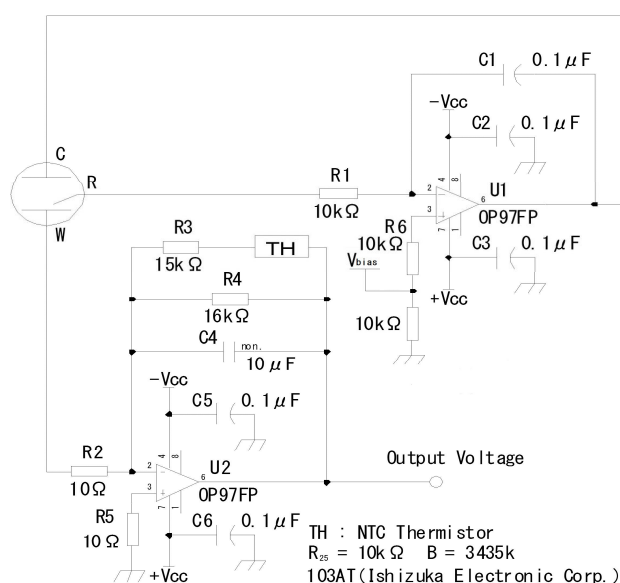
Dimensions



Temperature Dependency



Basic Circuit including temperature compensation



N.E.T. 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.