

NT-H202-PL300 Electrochemical Hydrogen Peroxide Sensor

Description

The NT-H2O2-PL300 is a new Premium Line electrochemical gas sensor with 3 electrodes for the detection of Hydrogen Peroxide in a variety of gas detection applications. Exhibiting high performance with excellent stability and output signal, this compact sensor (20.4 mm diameter) is suitable both for 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 prevents costly electrolyte leakage.



Technical Specifications

Detectable Gas:	Hydrogen Peroxide
Detection Range:	0 – 300 ppm
Maximum Overload:	500 ppm
Output Signal:	500 ±150 nA/ppm
Resolution:	0.5 ppm
Repeatability:	± 5 %
Typical Baseline Range: (pure air)	± 2 ppm
Typical Response Time (t ₉₀):	< 60 sec
Baseline Shift: (- 20 ~ 30 degree C)	< 3 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 Ohm
Bias Voltage:	+300 mV
Position Sensitivity:	None
Recommended Storage Temp.:	0-20°C
Storage Life:	Less than 6 months

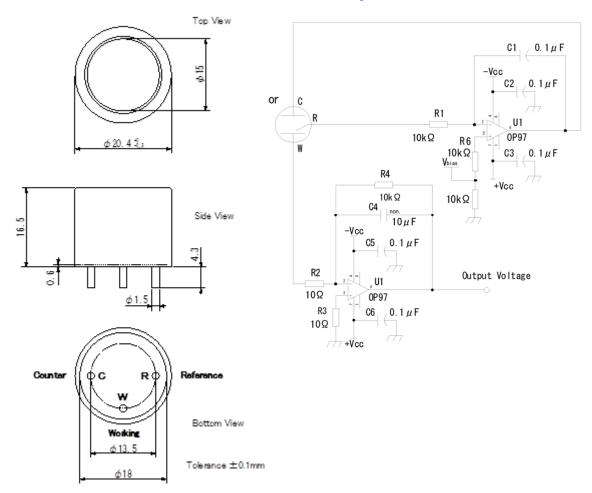
Performance data conditions: $20\,^{\circ}\text{C}$, $50\,^{\circ}\text{RH}$ and $1013\,\text{mBar}$

Typical cross sensitivities

Gas	Test Gas Concentration (ppm)	Typical H2O2 Concentration Equivalent (ppm)
Hydrogen Peroxide	100	100
Carbon Monoxide	300	2
Carbon Dioxide	5000	0
Hydrogen	500	1
Nitrogen Dioxide	5	2
Hydrogen Sulfide	5	10
Sulphur Dioxide	10	7
Ammonia	100	0
Ethanol	200	0

Dimensions

Basic Operational Circuit



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.