

Premium Line

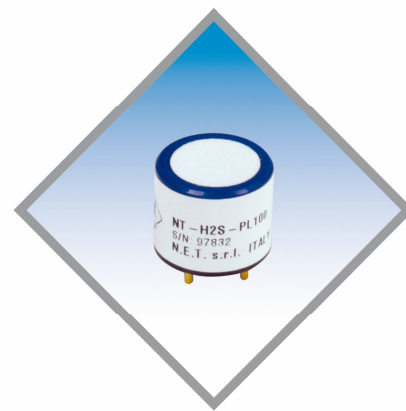
NT-H2S-PL100

Electrochemical Hydrogen Sulfide Sensor

Description

The NT-H2S-PL100 is a new Premium Line electrochemical gas sensor with 3 electrodes for the detection of Hydrogen Sulfide in a variety of gas detection applications. Exhibiting high performance with excellent selectivity, 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 Sulfide
Detection Range:	0 – 100 ppm
Maximum Overload:	500 ppm
Output Signal:	700± 150 nA/ppm
Resolution:	0.1 ppm
Repeatability:	± 2 %
Typical Baseline Range: (pure air)	-0.1 ppm to +0.4 ppm
Typical Response Time (t ₉₀):	< 30 sec
Baseline Shift: (- 20 ~ 40 degree C)	< 0.5 ppm
Long Term Output Drift:	< 2%/month
Expected Life Time:	>2 years
Weight:	Approximately 4.5 g

Operating conditions

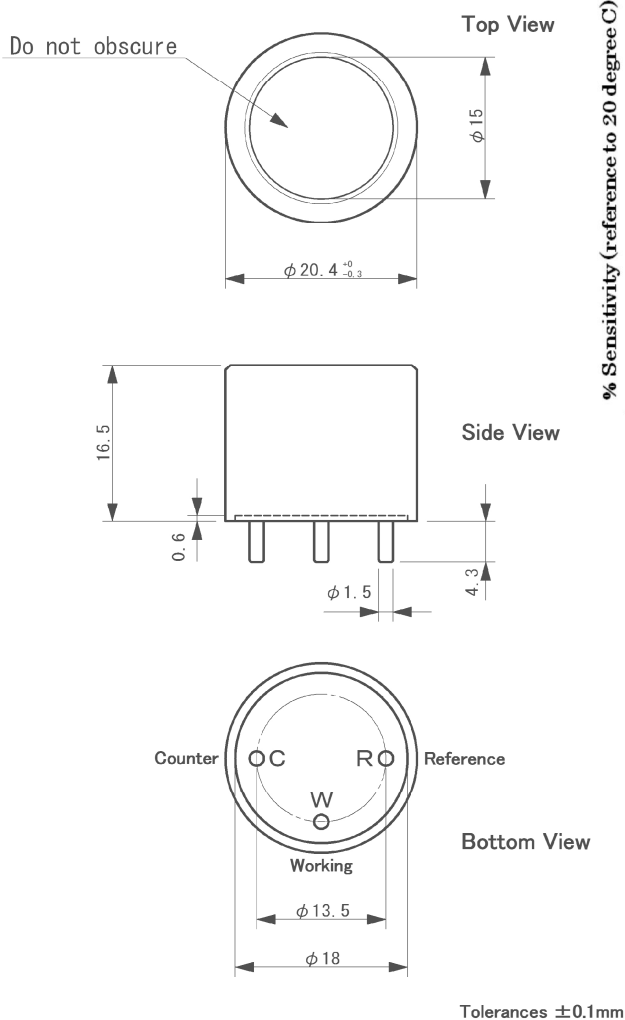
Operating Temperature:	-40°C to + 50°C
Operating Humidity:	15 to 90 % RH
Operating Pressure Range:	1atm± 10 %
Recommended Load Resistor:	10 Ohm
Bias Voltage:	Not required
Position Sensitivity:	None
Recommended Storage Temp.:	0-20°C
Storage Life:	Less than 6 months

Performance data conditions: 20°C, 50%RH and 1013mBar

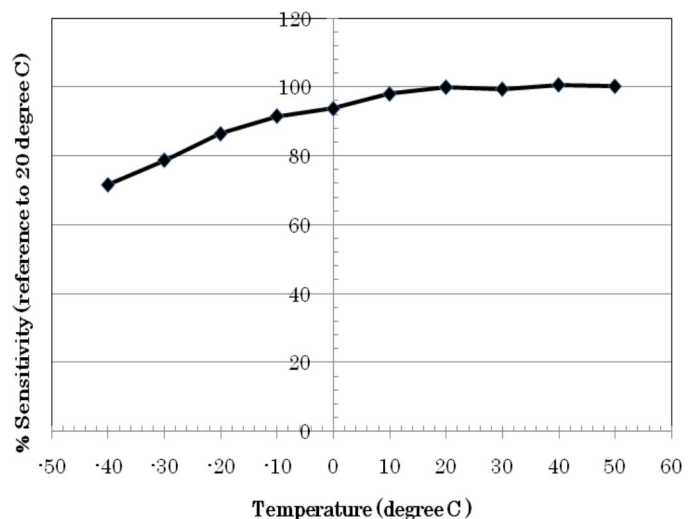
Typical cross sensitivities

Gas	Test Gas Concentration (ppm)	Typical Hydrogen Sulfide Concentration Equivalent (ppm)
Hydrogen Sulfide	10	10
Carbon Monoxide	300	<2
Carbon Dioxide	5000	0
Hydrogen	1000	<3
Sulphur Dioxide	5	0.5
Nitric Oxide	30	0.3
Nitrogen Dioxide	5	-1
Ammonia	100	0
Ethanol	1000	<2

Dimensions



Temperature Dependency



H₂S sensor Premium Line Benefits

- The NT-H2S-PL100 sensor is of high quality and reliability.
- It has an excellent selectivity.
- Low sensitivity to CO, H₂, SO₂ and Ethanol.
- The sensor has an excellent mechanical durability. As a result, the sensors can maintain a long stability without the breaking down of wires or electrolyte leakage.

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.