

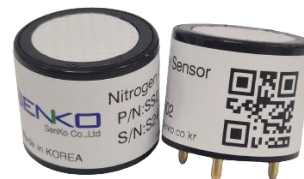
Nitrogen Dioxide Gas Sensor

Product Data Sheet
Model #SS2148

2025. Ver 1.0

Applications & Features

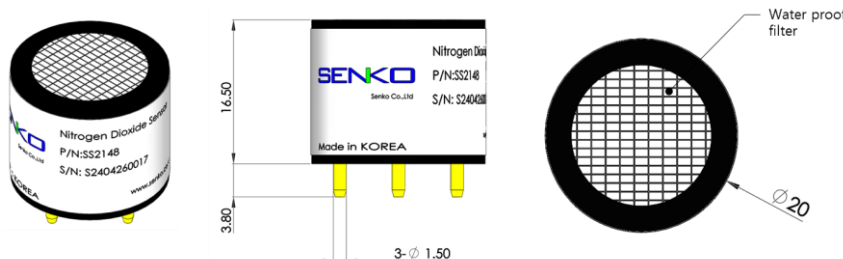
- Ideal for portable and fixed gas detector
- Industrial safety (ambient air monitoring applications)
- Management ventilation in garages
- Low interference on H₂S
- Low zero drift level



Specifications

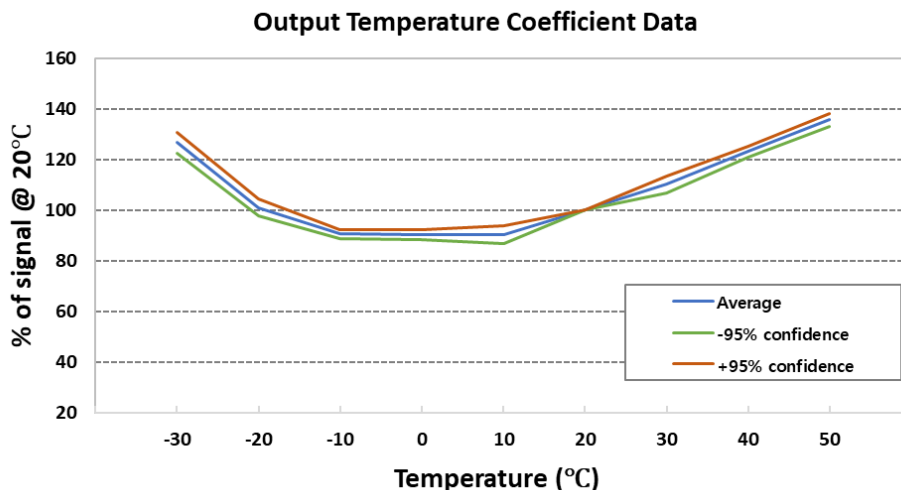
Performance Characteristics	
Output Signal	- 200±50 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	±0.5 ppm NO ₂ equivalent
Response Time (T90)	< 30 seconds
Filter	None
Measurement Range	0-20 ppm
Maximum Overload	40 ppm
Linearity	Linear
Repeatability	<±5%
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	< 0.1 ppm typical
Bias Voltage	0 mV
Environmental	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH
Lifetime	
Long Term Output Drift	< 10% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch
Intrinsic Safety Data	
Maximum at 200 ppm	40 mA
Maximum o/c Voltage	< 1.0 V
Maximum s/c Current	< 0.1 A

Dimension



Due to ongoing research and product improvement, specifications are subject to change without notice.

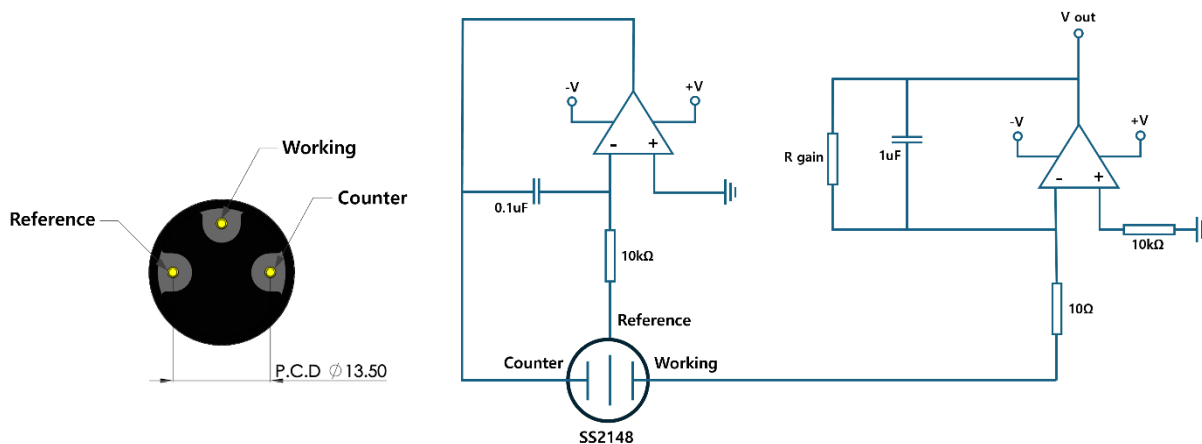
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Nitrogen Dioxide	20	20
Hydrogen Sulfide	50	< -0.1
Carbon Monoxide	100	0.0
Chlorine	10	2.8
Hydrogen	5000	0.0
Sulfur Dioxide	20	0.0
Nitric Oxide	200	< 0.1
Ammonia	100	< 0.1

Standard Operating Circuit



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