

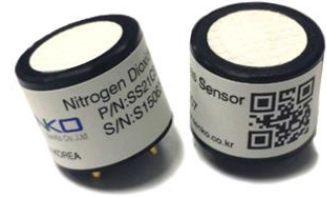
# Nitrogen Dioxide Gas Sensor

Product Data Sheet  
Model #SS2148

2023. Ver 1.0

## Applications

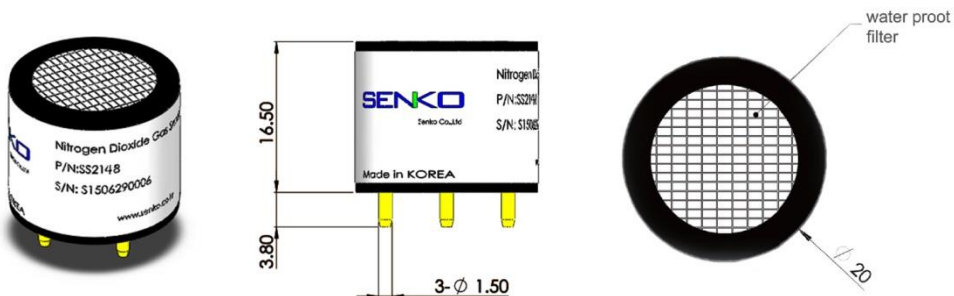
- Ideal for portable instrument
- Industry safety (ambient air monitoring applications)
- Diesel engine vehicles exhaust (car repair Facilities)
- Management ventilation in garages
- Etc.



## Specifications

Performance Characteristics	
Output Signal	- 220±50 nA / ppm
Typical Baseline Range (pure air)	±1 ppm NO <sub>2</sub> equivalent
T90 Response Time	<30 seconds
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
Environmental	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% Rh
Life Time	
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 200ppm	40mA
Maximum o/c Voltage	<1.0V
Maximum s/c Current	<0.1A

## Dimension



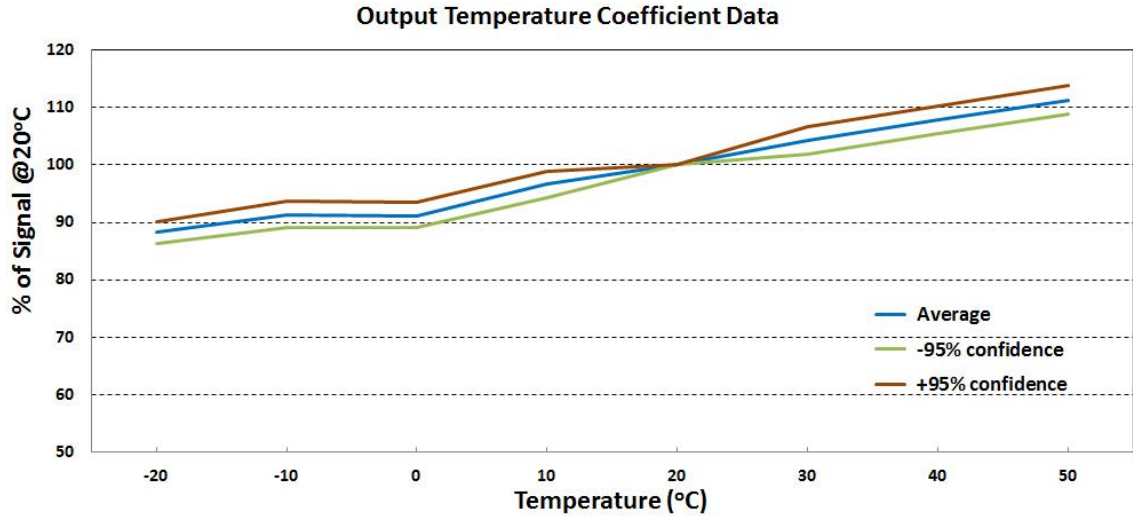
Due to ongoing research and product improvement, specifications are subject to change without notice

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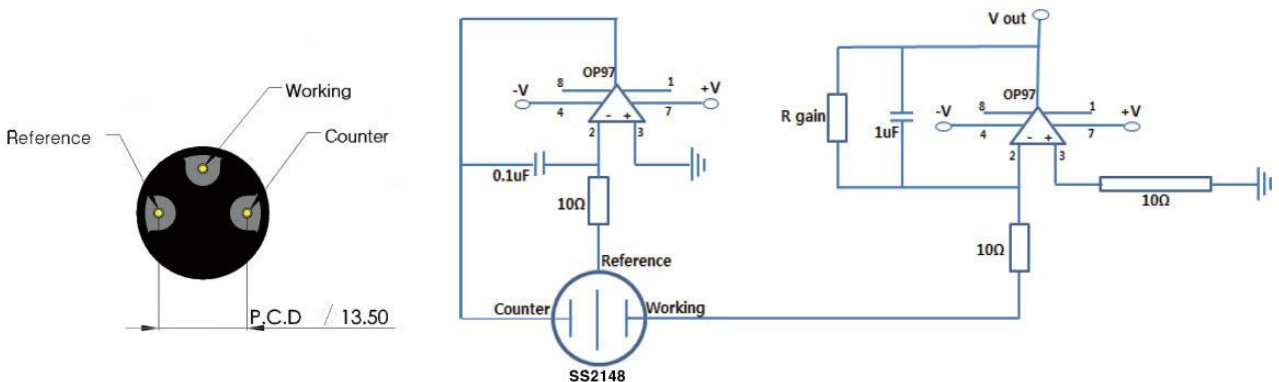
## Temperature effects



## Cross sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Nitrogen Dioxide	20	20
Hydrogen Sulfide	100	0
Carbon Monoxide	100	0
Chlorine	20	<3
Hydrogen	500	0
Sulfur Dioxide	10	0
Nitric Oxide	200	0

## Standard operating circuit



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