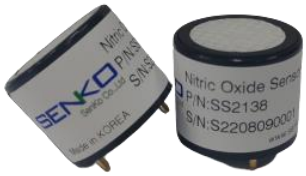
Nitric Oxide Gas Sensor

Product Data Sheet
Model #SS2138

2025. Ver 1.0

Applications & Features

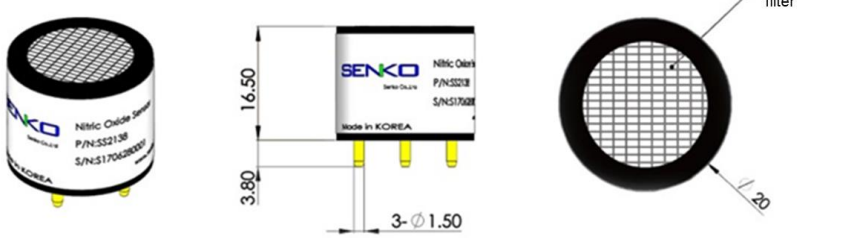
- Ideal for portable instrument
- Industrial safety (ambient air monitoring applications)
- Diesel engine vehicles exhaust (car repair facilities)
- Management ventilation in garages



Specifications

Performance Characteristics	
Output Signal	350±50 nA / ppm
Typical Baseline Range (pure air, @ 20℃)	±0.5 ppm NO equivalent
Response Time (T90)	< 15 seconds
Filter	None
Measurement Range	0-500 ppm
Maximum Overload	1,000 ppm
Linearity	Linear
Repeatability	< ±2%
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	< 0.5 ppm typical
Bias Voltage	+300 mV
Environmental	
Temperature Range Continuous	-20℃ to +50℃
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℃ to 20℃
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch
Intrinsic Safety Data	
Maximum at 1,000 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.

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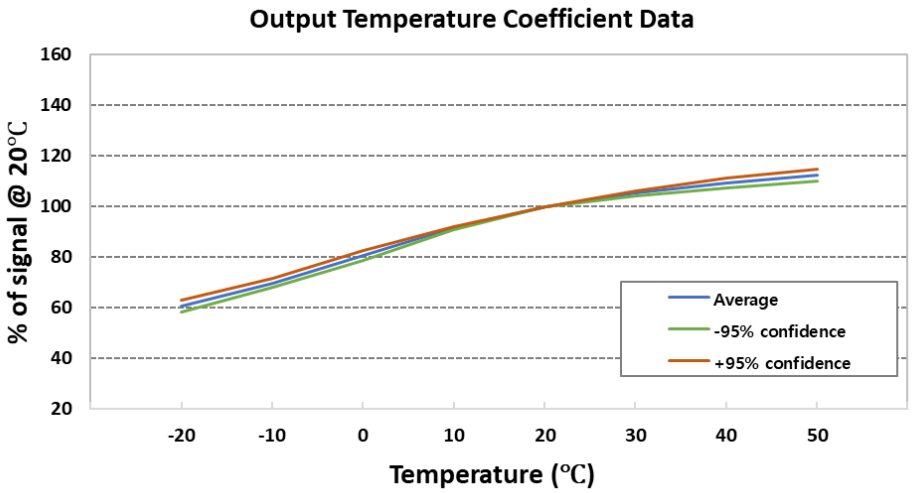
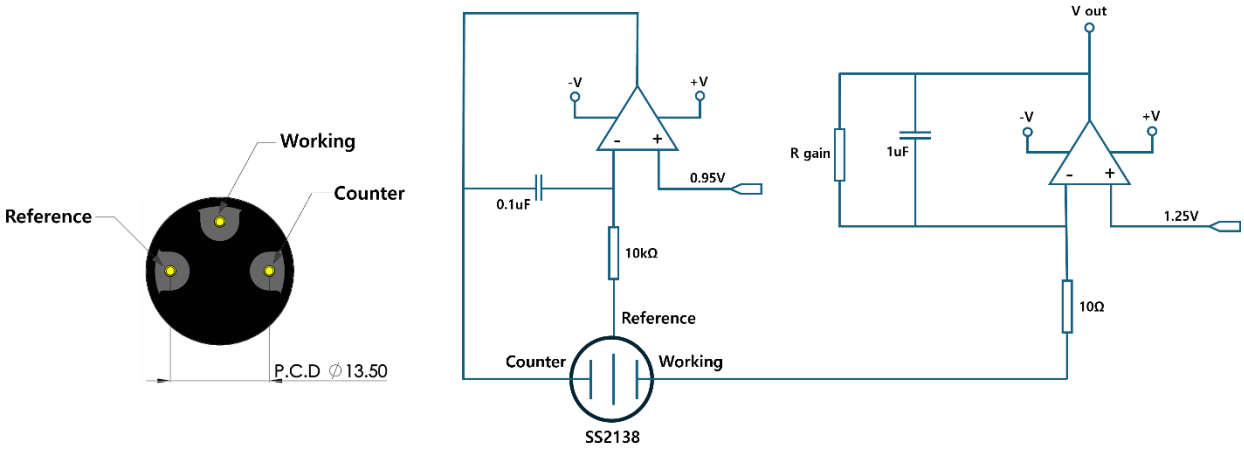
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Nitrogen Dioxide	20	< 3
Hydrogen Sulfide	50	< 8
Carbon Monoxide	100	0
Chlorine	20	< 1
Hydrogen	500	0
Sulfur Dioxide	10	0
Ammonia	100	0

Standard Operating Circuit



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