

Sulfur Dioxide Gas Sensor

Product Data Sheet Model #SS2158

2024. Ver 1.0

Applications & Characteristics

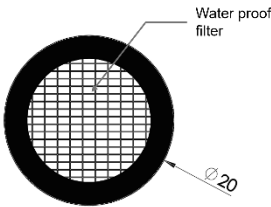
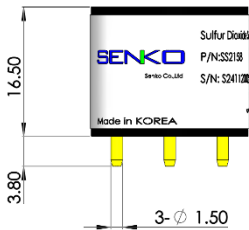
- Ideal for portable and fixed gas detector
- Industrial safety (ambient air monitoring applications)
- Automotive
- Filter for removing H₂S interference



Specifications

Performance Characteristics	
Output Signal	250±100 nA / ppm
Typical Baseline Range (pure air)	±0.5 ppm SO ₂ equivalent
T90 Response Time	< 30 seconds
Filter Capacity	1000 ppm·hours
Measurement Range	0-20 ppm
Maximum Overload	100 ppm
Linearity	Linear within ±5%
Repeatability	<±10%
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	< 15% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	12 months from date of dispatch
Intrinsic Safety Data	
Maximum at 100ppm	30 µA
Maximum o/c Voltage	<1.0 V
Maximum s/c Current	<0.1 A

Dimension



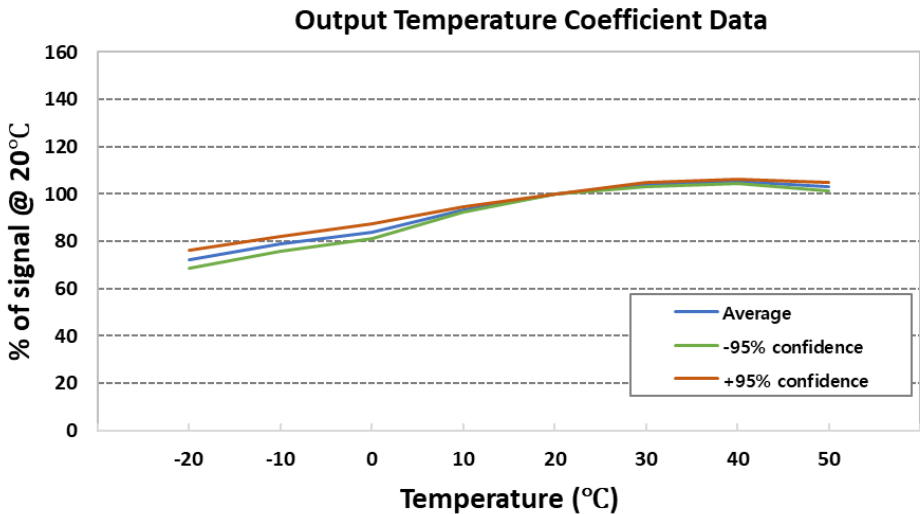
Due to ongoing research and product improvement, specifications are subject to change without notice

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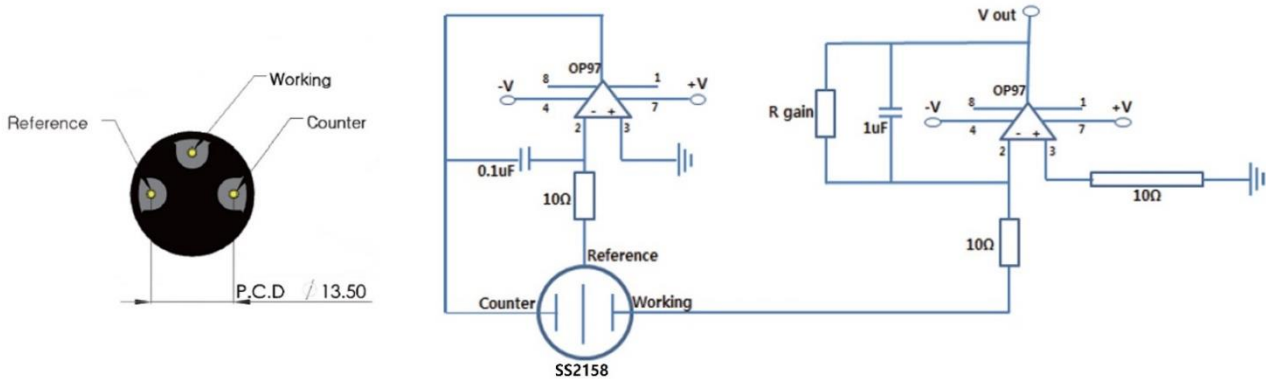
Temperature effects



Cross sensitivity

Gas	Concentration [ppm]	Reading [ppm]	Gas	Concentration [ppm]	Reading [ppm]
Sulfur dioxide	20	20	Carbon monoxide	100	-0.1
Nitric dioxide	50	-70	Hydrogen	500	0
Hydrogen sulfide	25	0	Hydrogen cyanide	10	6
Ethylene	67.5	0.1	Ammonia	50	0
Chlorine	10	0.1	Nitric oxide	100	-0.1
Acetylene	60	8			

Standard operating circuit



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