Sulfur Dioxide Gas Sensor

2025. Ver 1.1

Applications & Features

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



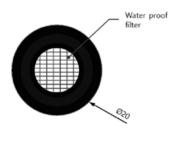
Specifications

Performance Characteristics				
Output Signal	250±100 nA / ppm			
Typical Baseline Range (pure air, @ 20°C)	≤ ±0.5 ppm SO ₂ equivalent			
Response Time (T90)	< 60 seconds			
Filter	1000 ppm·hours capacity for removing H ₂ S			
Measurement Range	0-20 ppm			
Maximum Overload	100 ppm			
Linearity	Linear			
Repeatability	< ±10% of signal			
Recommended Load Resistor	10 ohms			
Resolution (Electronics Dependent)	< 0.1 ppm typical			
Bias Voltage	Not required			
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 100 ppm	30 μΑ			
Maximum o/c Voltage	< 1.0 V			
Maximum s/c Current	< 0.1 A			

Dimension



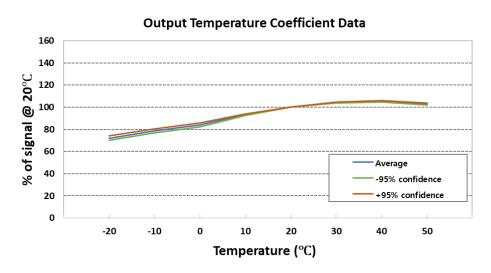




Due to ongoing research and product improvement, specifications are subject to change without notice.

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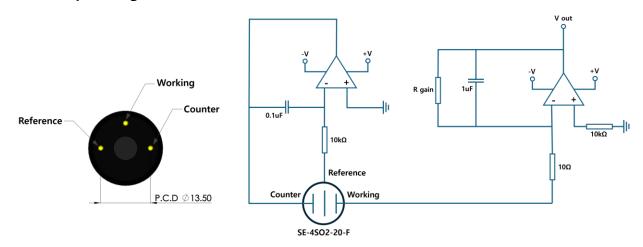
Temperature Effects



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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