

Hydrogen Sulfide Gas Sensor

Product Data Sheet Model #SS2198_HT

2025. Ver 1.0

Applications & Features

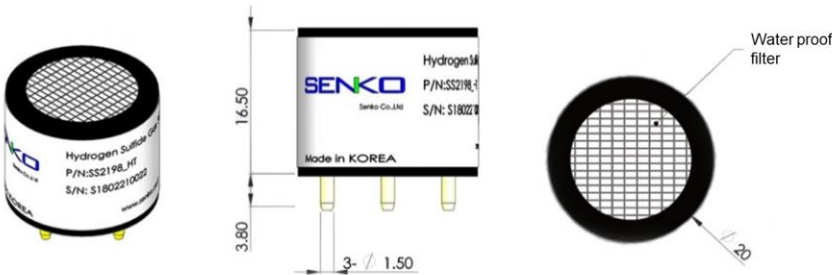
- Ideal for fixed instrument at high temperature and low humidity conditions
- Industrial safety (petrochemical, refineries)
- Sewers, wastewater treatment
- Mining



Specifications

Performance Characteristics	
Output Signal	450±80 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	±2 ppm H ₂ S equivalent
Response Time (T90)	< 30 seconds
Filter	None
Measurement Range	0-100 ppm
Maximum Overload	500 ppm
Linearity	Linear
Repeatability	< ±2 ppm H ₂ S equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	< 0.1 ppm typical
Bias Voltage	0 mV
Environmental	
Temperature Range Continuous	-20°C to +70°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH
Lifetime	
Long Term Output Drift	< 5% 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 1,000 ppm	40 mA
Maximum o/c Voltage	< 1.0 V
Maximum s/c Current	< 0.1 A

Dimension



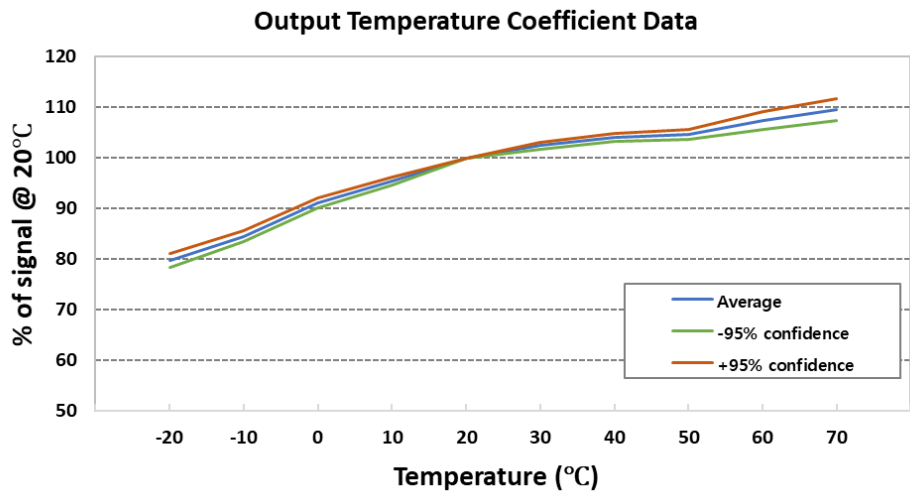
Due to ongoing research and product improvement, specifications are subject to change without notice.

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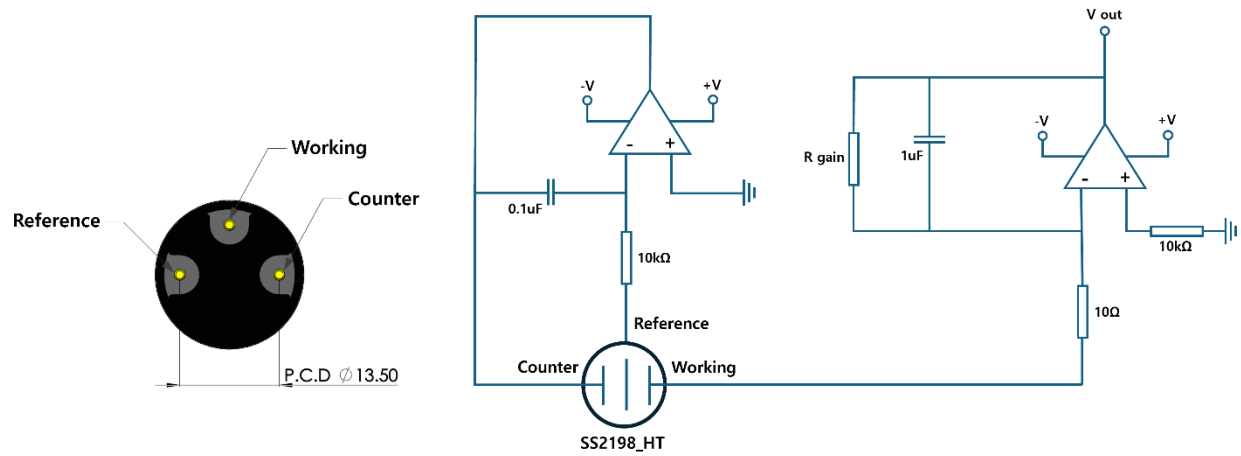
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Hydrogen Sulfide	50	50
Carbon Monoxide	300	0
Hydrogen	10,000	0
Sulfur Dioxide	5	< 12
Nitric Oxide	35	0
Nitrogen Dioxide	5	< -5

Standard Operating Circuit



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