

Hydrogen Sulfide Gas Sensor

Product Data Sheet Model #SS4198_HT

2025. Ver 1.0

Applications & Features

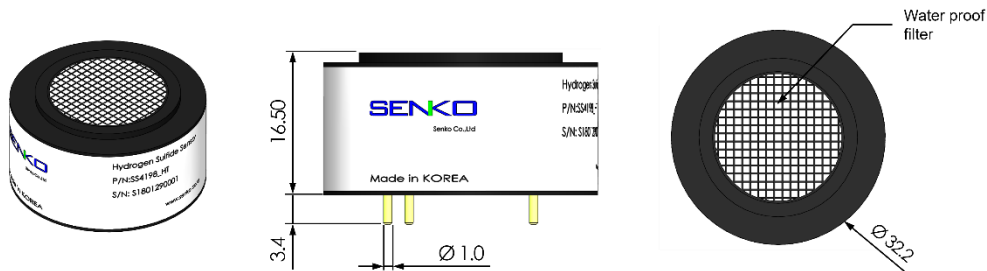
- Ideal for portable and fixed instrument
- Industrial safety (petrochemical, refineries)
- Sewers, wastewater treatment
- Mining



Specifications

| Performance Characteristics | |
|---|--------------------------------------|
| Output Signal | 650±150 nA / ppm |
| Typical Baseline Range (pure air, @ 20°C) | ±2 ppm H ₂ S equivalent |
| Response Time (T90) | < 20 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



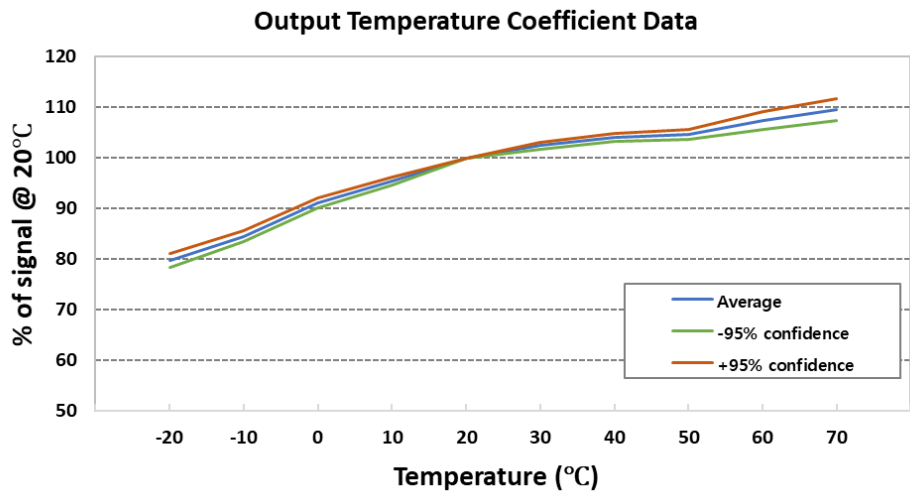
Due to ongoing research and product improvement, specifications are subject to change without notice.

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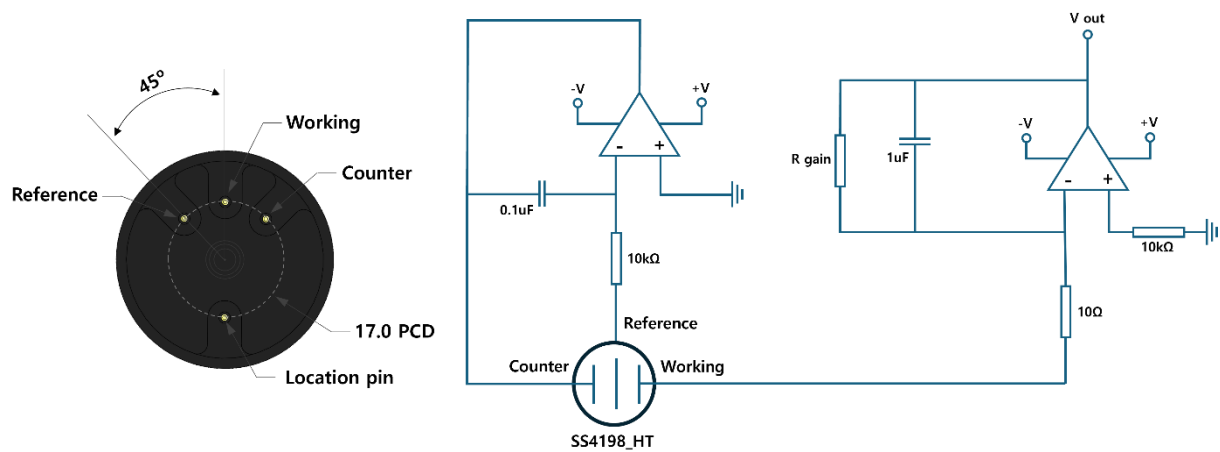
Temperature Effects



Cross Sensitivity

| Gas | Concentration [ppm] | Reading [ppm] |
|------------------|---------------------|---------------|
| Hydrogen Sulfide | 50 | 50 |
| Carbon Monoxide | 300 | 0 |
| Hydrogen | 10,000 | 0 |
| Sulfur Dioxide | 20 | < 12 |
| Nitric Oxide | 200 | 0 |
| Nitrogen Dioxide | 50 | < -5 |

Standard Operating Circuit



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