

Carbon Monoxide Gas Sensor (Miniature CO)

Product Data Sheet
Model #SS3128

2025. Ver 1.0

Applications & Features

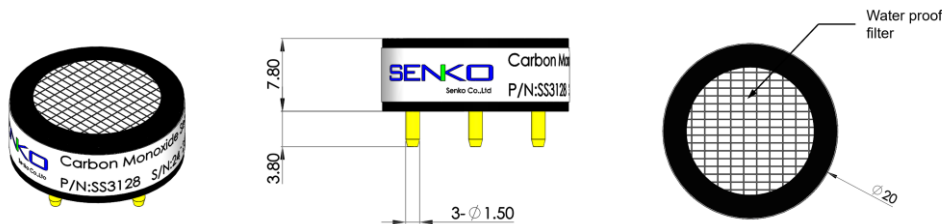
- Ideal for portable instrument
- Industrial safety (ambient air monitoring applications)
- Residential CO alarms
- Fire alarms



Specifications

| Performance Characteristics | |
|---|---------------------------------|
| Output Signal | 70±20 nA / ppm |
| Typical Baseline Range (pure air, @ 20°C) | ≤ ±2 ppm CO equivalent |
| Response Time (T90) | < 20 seconds |
| Filter | ≥ 20,000 ppm-hours capacity |
| Measurement Range | 0-2,000 ppm |
| Maximum Overload | 5,000 ppm |
| Linearity | Linear up to 2,000 ppm |
| Repeatability | ≤ ±2 ppm CO equivalent |
| Recommended Load Resistor | 10 ohms |
| Resolution (Electronics Dependent) | ≤ 0.5 ppm typical |
| Bias Voltage | 0 mV |
| 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 | < 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 10,000 ppm | 80 mA |
| Maximum o/c Voltage | < 1.0 V |
| Maximum s/c Current | < 0.1 A |

Dimension



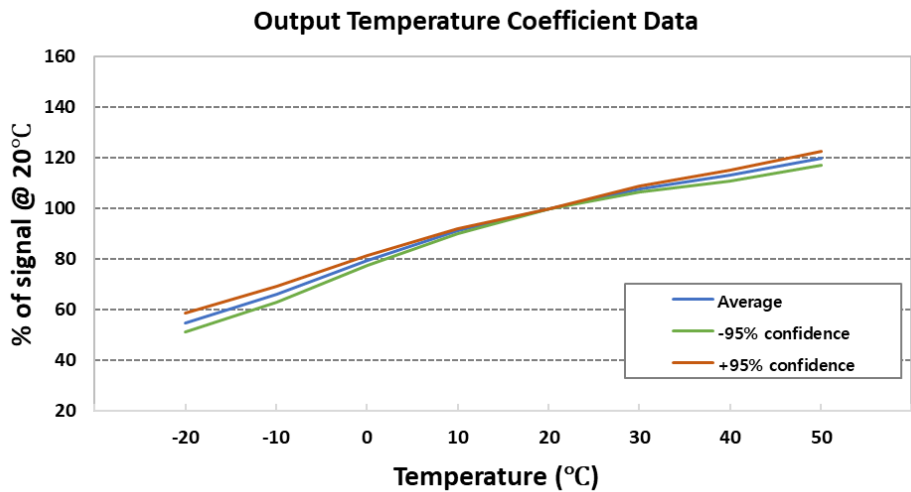
Due to ongoing research and product improvement, specifications are subject to change without notice.

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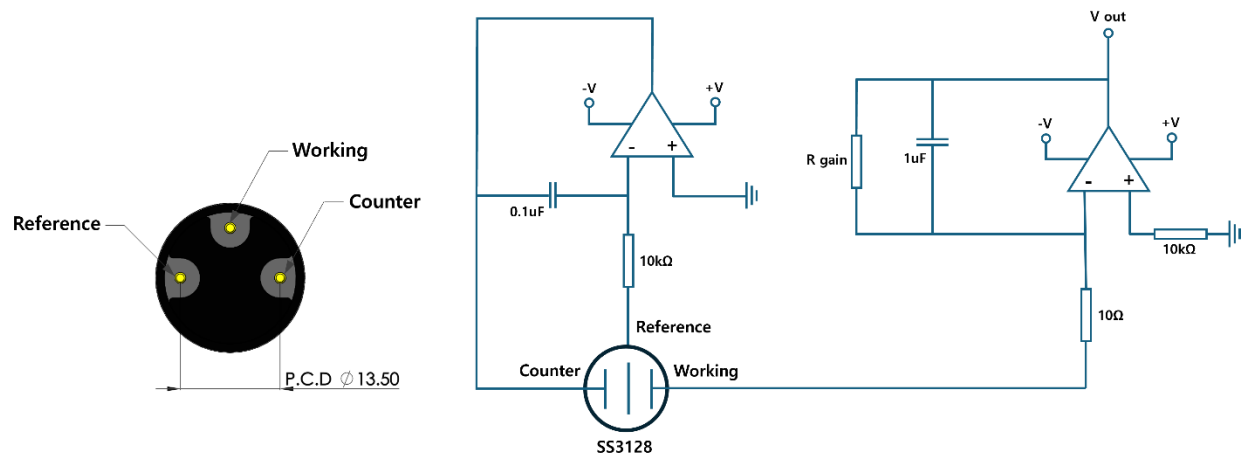
Temperature Effects



Cross Sensitivity

| Gas | Concentration [ppm] | Reading [ppm] |
|------------------|---------------------|---------------|
| Carbon Monoxide | 100 | 100 |
| Hydrogen | 100 | < 30 |
| Hydrogen Sulfide | 15 | 0 |
| Sulfur Dioxide | 5 | 0 |
| Nitric Oxide | 35 | < 3 |
| Nitrogen Dioxide | 20 | 0 |

Standard Operating Circuit



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