Carbon Monoxide Gas Sensor

(Low Hydrogen Cross Sensitivity)

Product Data Sheet Model #SS2128_LH

2025. Ver 1.0

Applications & Features

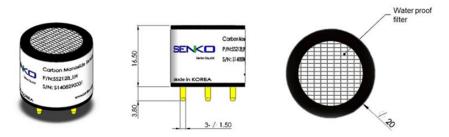
- Ideal for portable instrument
- Industrial safety (ambient air monitoring applications)
- Residential CO alarms
- Fire alarms



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	0-1,000 ppm	
Maximum Overload	2,000 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 2,000 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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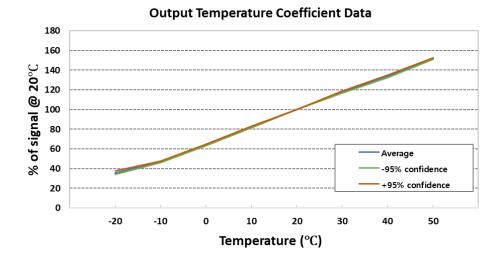
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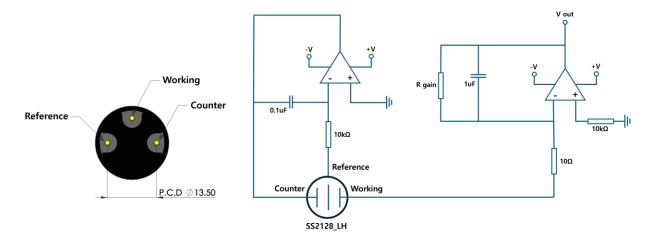
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Carbon Monoxide	100	100
Hydrogen	100	< 10
Hydrogen Sulfide	15	0
Sulfur Dioxide	5	0
Nitric Oxide	35	< 10
Nitrogen Dioxide	20	0

Standard Operating Circuit



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