

Dual(CO&H₂S) Gas Sensor

Product Data Sheet
Model #SS21CH

2023. Ver 1.0

Applications

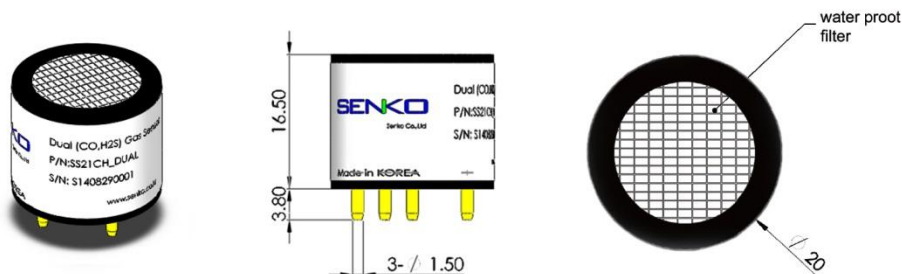
- Ideal for multigas portable instrument
- Industry safety (ambient air monitoring applications)
- Residential CO alarms
- Sewers, Wastewater treatment, Mining
- Etc.



Specifications

Performance Characteristics	
Output Signal	80±20 nA / ppm CO / 775±275 nA / ppm H ₂ S
Typical Baseline Range (pure air)	≤ ±2 ppm CO / ≤ ±0.5 ppm H ₂ S equivalent
T90 Response Time	<30 seconds
Measurement Range	0-500 ppm CO / 0~200ppm H ₂ S
Maximum Overload	2,000 ppm CO / 500ppm H ₂ S
Linearity	Linear
Repeatability	≤ ±3% CO / ≤ ±2% H ₂ S equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	≤ 0.5 ppm typical
Environmental	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% Rh
Life Time	
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 2,000ppm	0.3mA
Maximum o/c Voltage	<1.0V
Maximum s/c Current	<0.1A

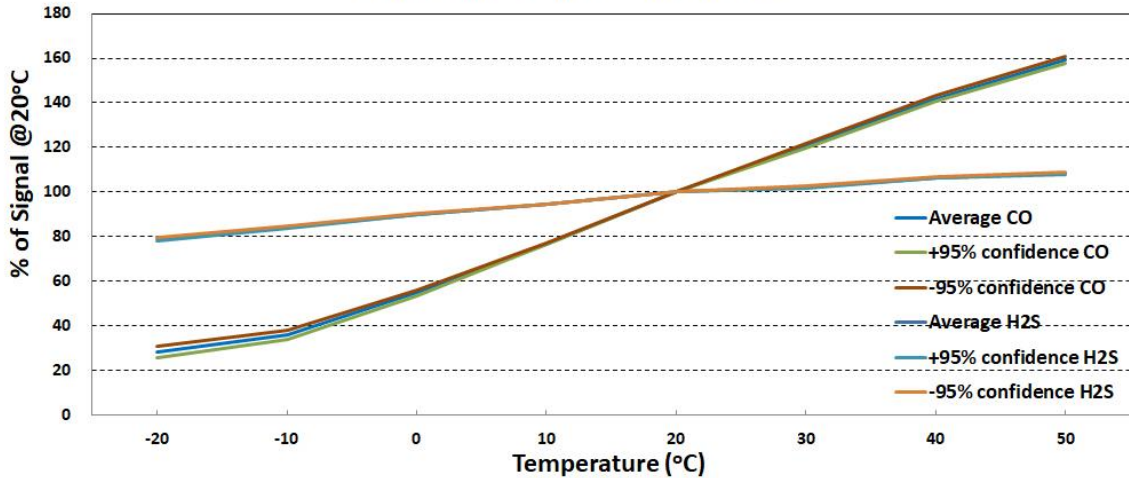
Dimension



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

Temperature effects

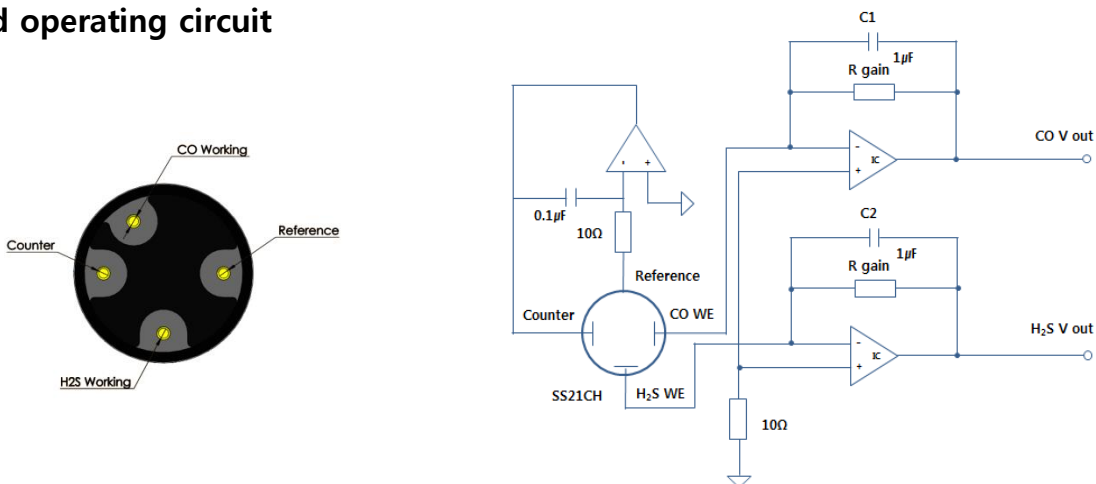
Output Temperature Coefficient Data



Cross sensitivity

Gas	Concentration [ppm]	Reading [ppm]	
		CO Channel	H ₂ S Channel
Hydrogen Sulfide	25	<5	25
Carbon Monoxide	100	100	<2
Hydrogen	100	<30	<0.05
Sulfur Dioxide	5	0	<1
Nitric Oxide	35	<0.1	<1
Nitrogen Dioxide	5	<0.1	0

Standard operating circuit



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