

Hydrogen Peroxide Gas Sensor

Product Data Sheet Model #SE-4H2O2-2000

2025. Ver 1.0

Applications & Features

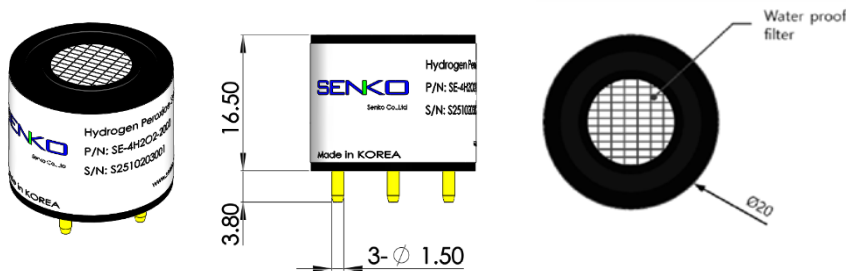
- Sterilization Process
- Disinfection Monitoring
- Industrial Safety
- Process Control



Specifications

Performance Characteristics	
Output Signal	50±10 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	< ±5 ppm H ₂ O ₂ equivalent
Response Time (T90)	< 60 seconds
Measurement Range	0-2000 ppm
Maximum Overload	4000 ppm
Linearity	Linear
Repeatability	< ±5% of signal
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	< 1 ppm typical
Bias Voltage	Not required
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 4000 ppm	200 µA
Maximum o/c Voltage	< 1.0 V
Maximum s/c Current	< 0.1 A

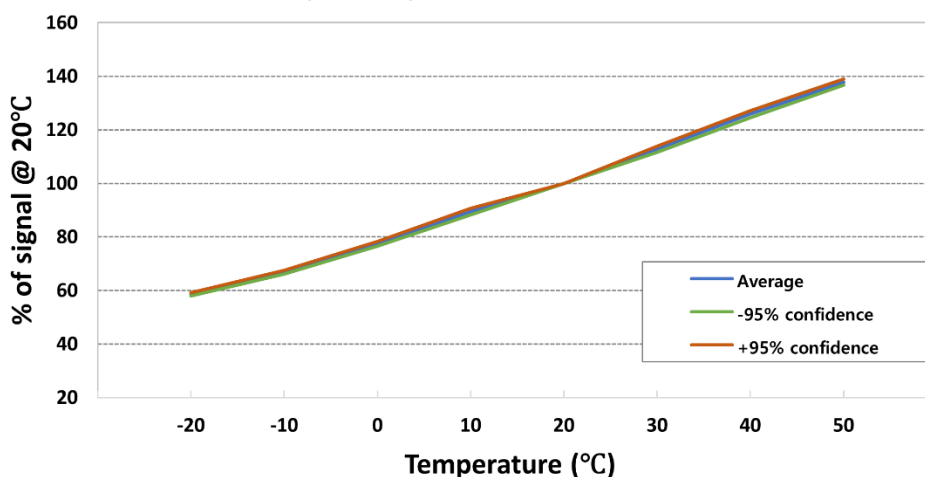
Dimension



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

Temperature Effects

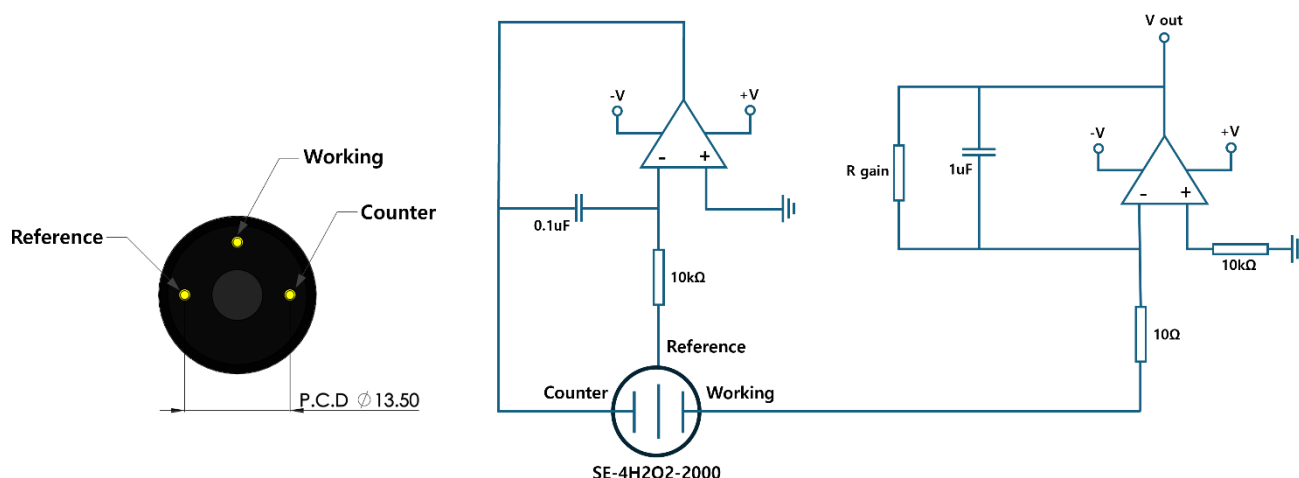
Output Temperature Coefficient Data



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]	Gas	Concentration [ppm]	Reading [ppm]
Carbon Monoxide	100	50	Sulfur Dioxide	20	17
Hydrogen Sulfide	50	211	Hydrogen	500	175
Nitrogen Dioxide	50	-37	Ethylene	135	45
Chlorine	10	-4	Ammonia	100	0
Nitric Oxide	100	31			

Standard Operating Circuit



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