

Vinyl Chloride Gas Sensor

Product Data Sheet Model #SS11VC

2025. Ver 1.0

Applications & Features

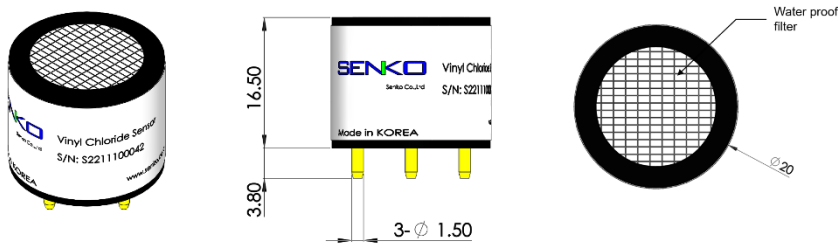
- Ideal for fixed instruments
- Industrial safety (chemical plants, factories for PVC manufacturing)
- Ambient air and water condition monitoring



Specifications

Performance Characteristics	
Output Signal	450±100 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	≤ ±1 ppm C ₂ H ₃ Cl equivalent
Response Time (T90)	< 70 seconds
Filter	None
Measurement Range	0-20 ppm
Maximum Overload	50 ppm
Linearity	Linear
Repeatability	≤ ±5% of signal
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	≤ 0.5 ppm typical
Bias Voltage	+300 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	< 10% 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 200 ppm	50 µA
Maximum o/c Voltage	< 1.0 V
Maximum s/c Current	< 0.1 A

Dimension



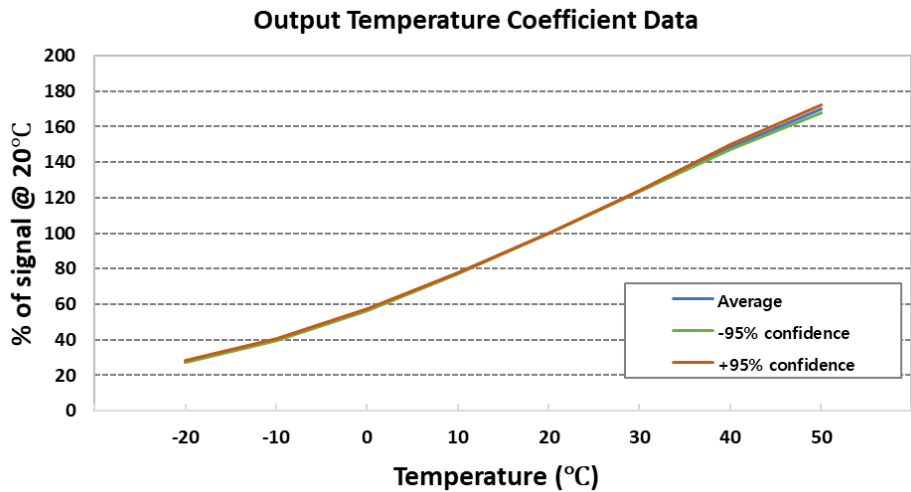
Due to ongoing research and product improvement, specifications are subject to change without notice.

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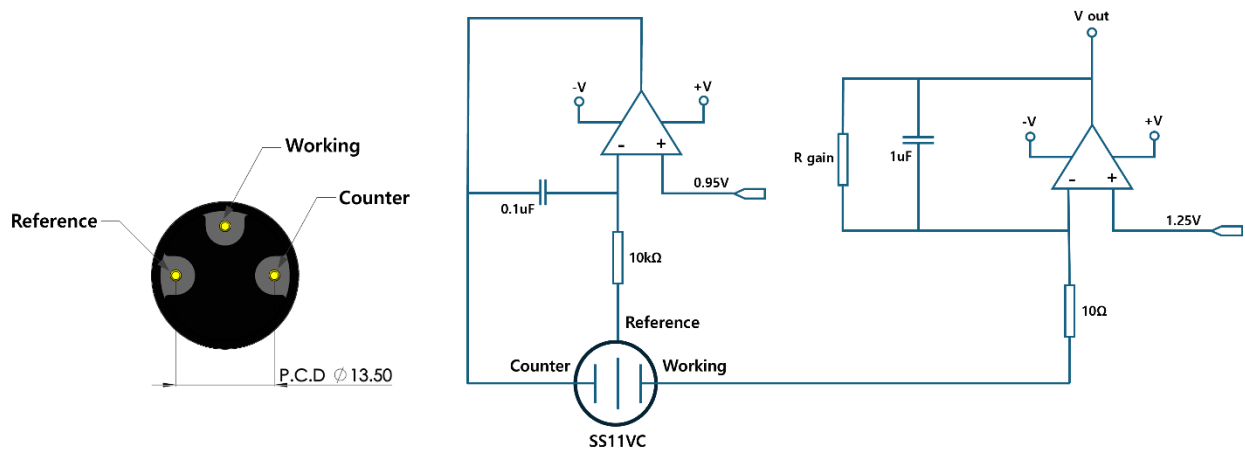
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Vinyl Chloride	10	10
Carbon Monoxide	100	45
Hydrogen	500	< 1
Ammonia	100	0
Ethanol	207	200
Isopropyl Alcohol	20	11
iso-Butylene	100	100

Standard Operating Circuit



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