

# Hydrogen Cyanide Gas Sensor

## Product Data Sheet Model #SE-4HCN-50-F

2025. Ver 1.0

### Applications & Features

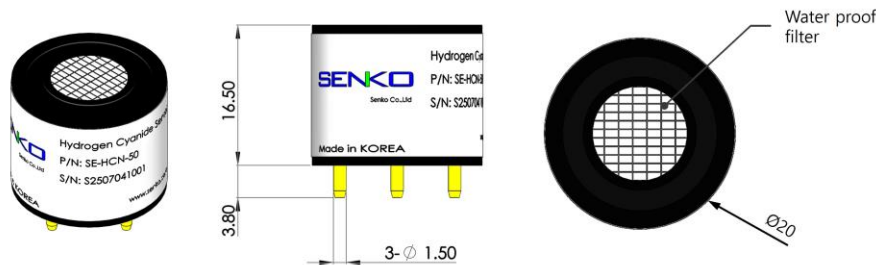
- Portable and fixed gas detectors
- Leakage and TLV-monitoring
- Semiconductor industry



### Specifications

Performance Characteristics	
Output Signal	70±20 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	≤ ±0.5 ppm HCN equivalent
Response Time (T90)	< 90 seconds
Measurement Range	0-50 ppm
Maximum Overload	100 ppm
Linearity	Linear
Repeatability	< ±15% 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	< 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 100 ppm	10 µA
Maximum o/c Voltage	< 1.0 V
Maximum s/c Current	< 0.1 A

### Dimension



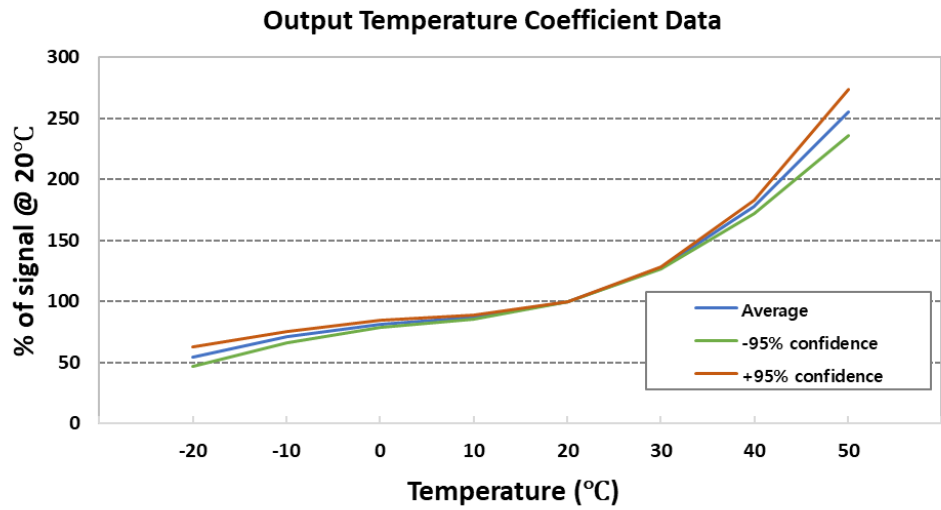
Due to ongoing research and product improvement, specifications are subject to change without notice.

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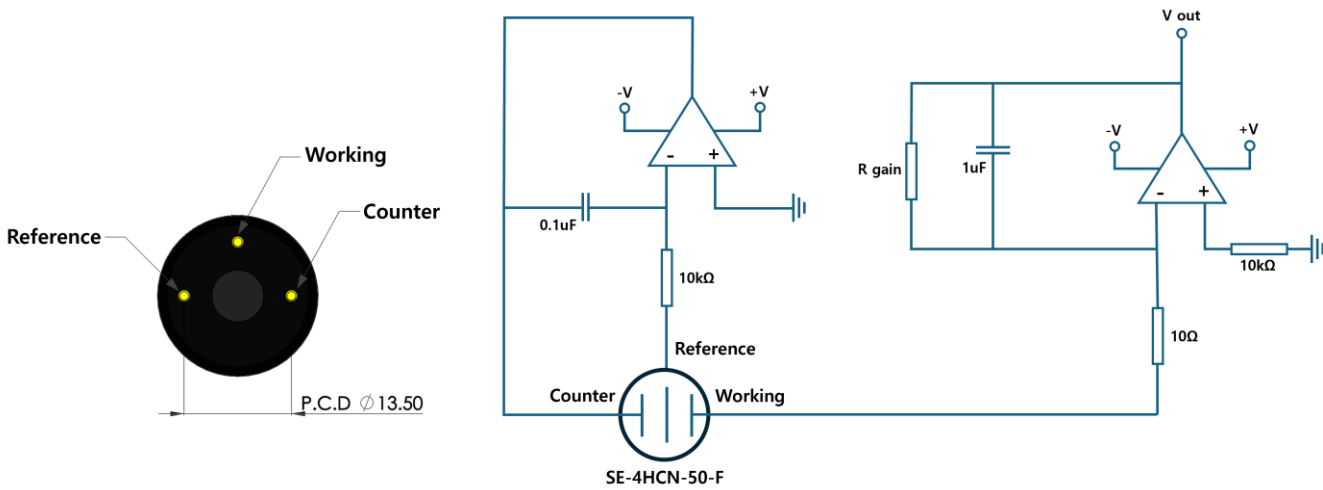
## Temperature Effects



## Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Hydrogen Cyanide	10	10
Carbon Monoxide	100	< 0.7
Hydrogen Sulfide	50	75
Sulfur Dioxide	20	18
Nitric Oxide	100	1
Nitrogen Dioxide	50	-90
Ethylene	67.5	< 0.5
Carbon Dioxide	5000	< 1

## Standard Operating Circuit



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