

# Silane Gas Sensor

## Product Data Sheet Model #SS21S8

2025. Ver 1.0

### Applications & Features

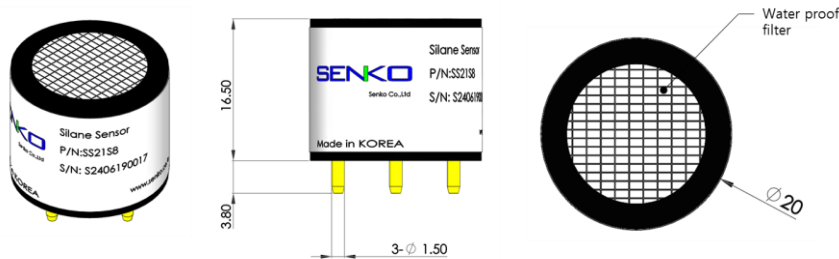
- Ideal for fixed instrument
- Industrial safety (semiconductor production)
- Etc.



### Specifications

Performance Characteristics	
Output Signal	300±150 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	≤ ±0.5 ppm HCl equivalent
Response Time (T90)	< 50 seconds
Filter	None
Measurement Range	0-20 ppm
Maximum Overload	40 ppm
Linearity	Linear
Repeatability	< ±5% of signal
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	< 0.1 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 40 ppm	10 µA
Maximum o/c Voltage	< 1.0 V
Maximum s/c Current	< 0.1 A

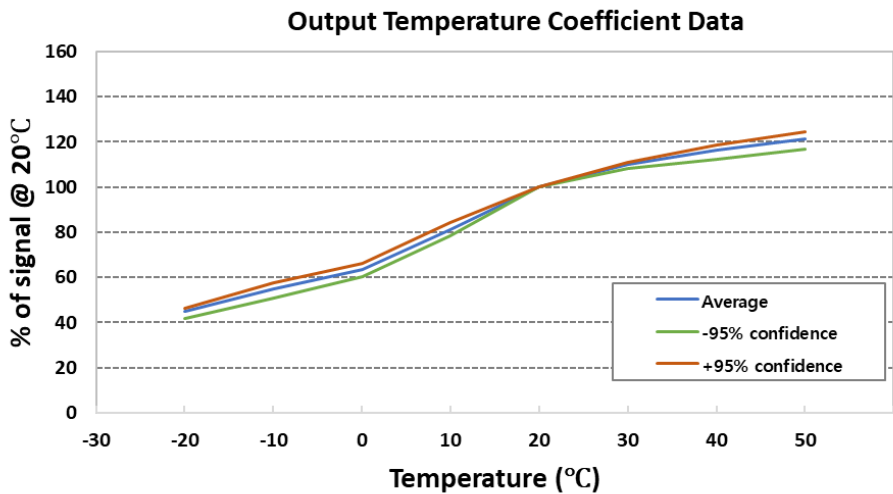
### Dimension



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

# Silane Gas Sensor

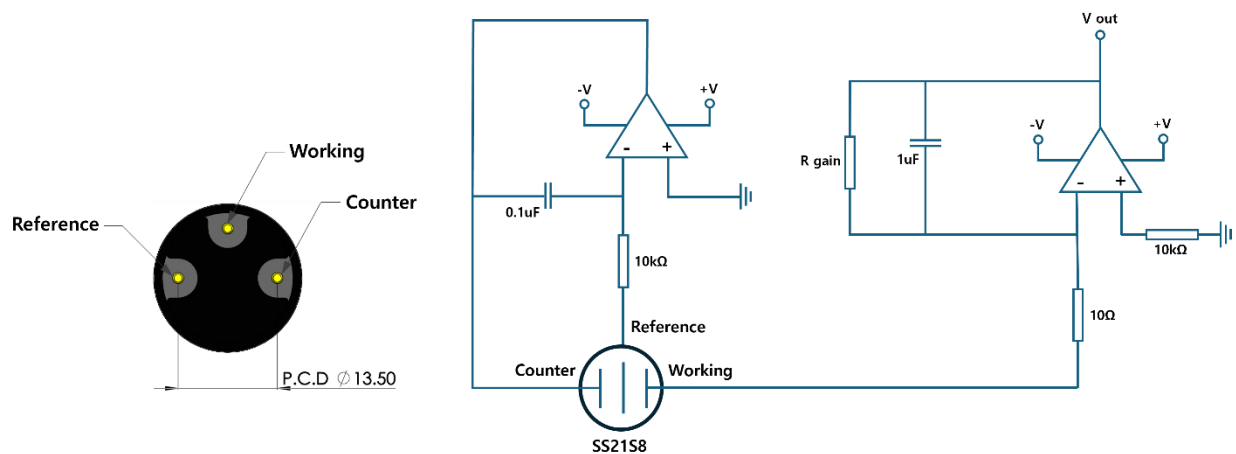
## Temperature Effects



## Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]	Gas	Concentration [ppm]	Reading [ppm]
Silane	10	10	Nitrogen Dioxide	50	< -10
Carbon Monoxide	100	0	Diborane	5	< 5
Hydrogen	5,000	< 2	Hydrogen Chloride	10	< 0.5
Hydrogen Sulfide	50	< 8	Phosphine	5	< 3
Sulfur Dioxide	20	< 2	Arsine	5	< 2
Chlorine	10	< 0.1			

## Standard Operating Circuit



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