

Methyl Mercaptan Gas Sensor

Product Data Sheet Model #SB-4CH3SH-5

2026. Ver 1.0

Applications & Features

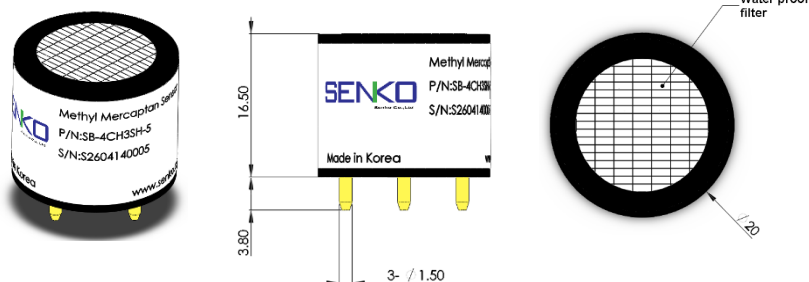
- Ideal for portable and fixed gas detectors
- Environmental air monitoring
- Emissions monitoring
- Agricultural and food processing



Specifications

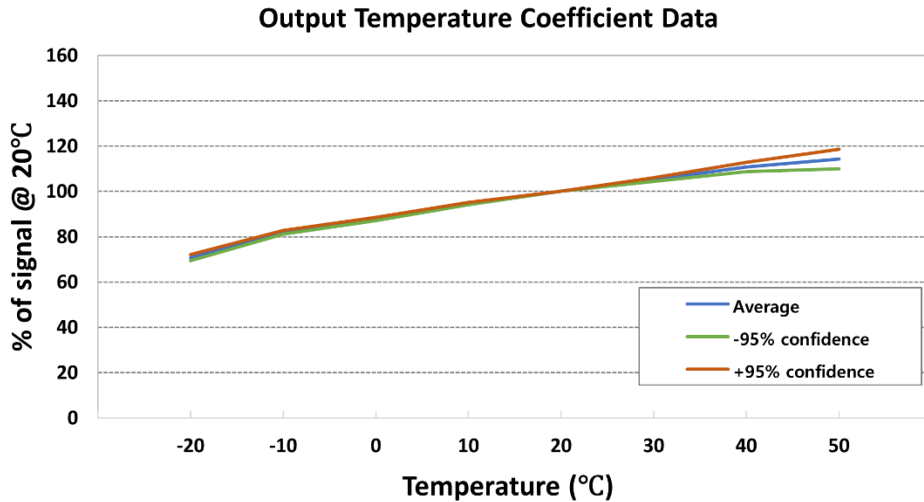
Performance Characteristics	
Output Signal	2000±700 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	< ±0.2 ppm CH ₃ SH equivalent
Response Time (T90)	< 30 seconds
Measurement Range	0-5 ppm
Maximum Overload	10 ppm
Linearity	Linear
Repeatability	< ±5% of signal
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	< 0.1 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 10ppm	20 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.

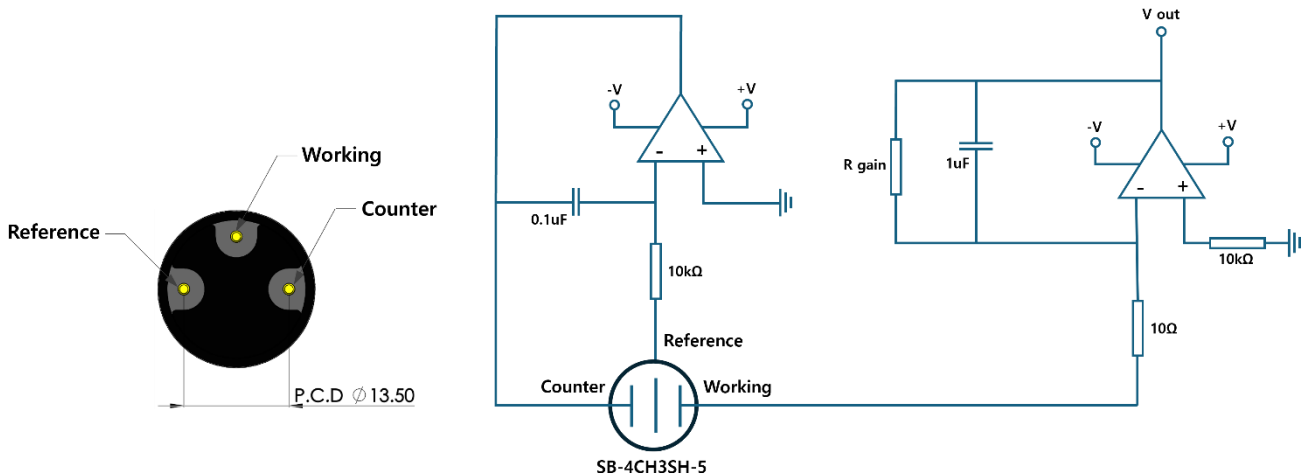
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]	Gas	Concentration [ppm]	Reading [ppm]
Methane	1000	0	Hydrogen sulfide	5	7
Chlorine	5	-0.7	Isopropyl alcohol	20	-2
Carbon monoxide	100	0.5	Nitrogen dioxide	5	-1
Carbon dioxide	5000	0	Sulfur dioxide	5	0

Standard Operating Circuit



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