

Hydrogen Gas Sensor

Product Data Sheet
Model #SS2178

2023. Ver 1.0

Applications

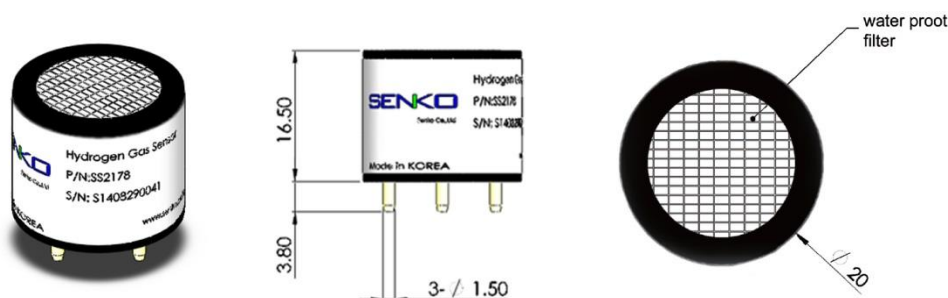
- Ideal for portable and fixed instrument
- Industry safety (Hydrogen storage, Refineries)
- Etc.



Specifications

Performance Characteristics	
Output Signal	30±10 nA / ppm
T90 Response Time	<30 seconds
Measurement Range	0-1,000 ppm
Maximum Overload	2,000 ppm
Linearity	Linear
Repeatability	2% of signal
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	<2 ppm typical
Environmental	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% Rh
Life Time	
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 2,000ppm	50mA
Maximum o/c Voltage	<1.0V
Maximum s/c Current	<0.1A

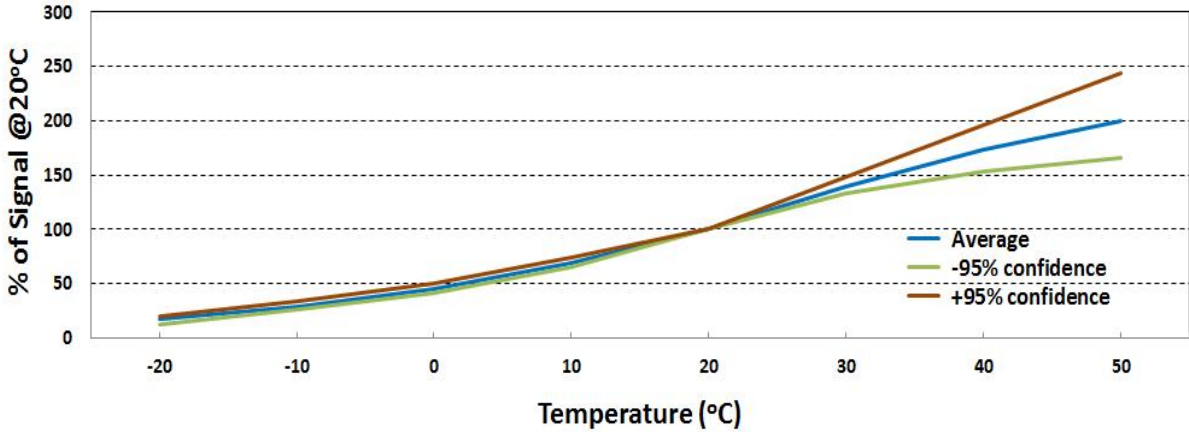
Dimension



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

Temperature effects

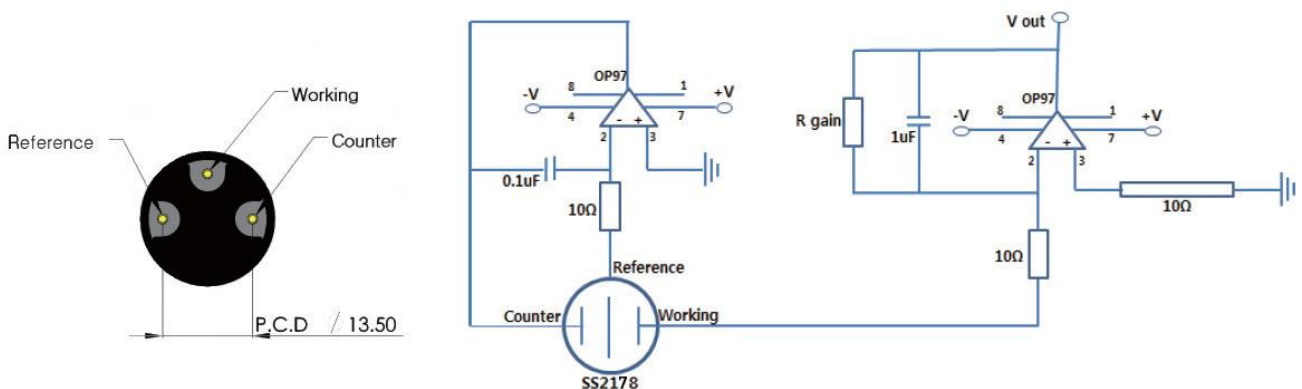
Output Temperature coefficient Data



Cross sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Carbon Monoxide	100	<20
Sulfur Dioxide	10	0
Hydrogen Sulfide	50	<10
Nitric Oxide	200	<45
Nitrogen Dioxide	5	0

Standard operating circuit



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