Phosphine Gas Sensor

Applications & Features

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



Product Data Sheet

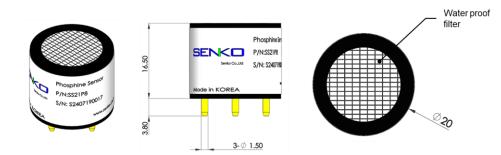
2025. Ver 1.0

Model #SS21P8

Specifications

Performance Characteristics					
Output Signal	1000±300 nA / ppm				
Typical Baseline Range (pure air, @ 20°C)	±0.1 ppm PH ₃ equivalent				
Response Time (T90)	< 40 seconds				
Filter	None				
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	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 10 ppm	20 µA				
Maximum o/c Voltage	< 1.0 V				
Maximum s/c Current	< 0.1 A				





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

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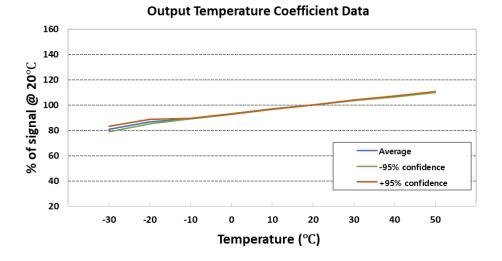
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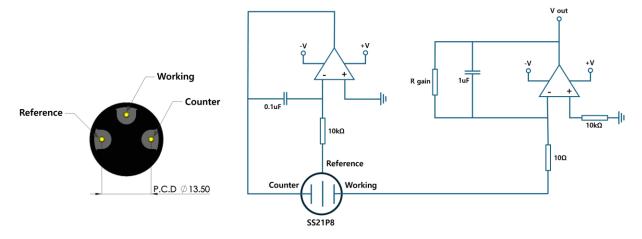
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]	Gas	Concentration [ppm]	Reading [ppm]
Phosphine	5	5	Ammonia	100	0
Carbon Monoxide	100	0	Arsine	5	2.7
Hydrogen	500	0	Diborane	5	0.9
Hydrogen Sulfide	50	13.9	Silane	50	5.8
Sulfur Dioxide	20	0	Hydrogen Chloride	10	0.3
Nitric Dioxide	50	-5.6			

Standard Operating Circuit



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