# Phosphine Gas Sensor

Product Data Sheet Model #SS21P8

2023. Ver 1.0

#### Applications

- Ideal for portable and fixed instrument
- Industry safety (Semiconductor production)
- Etc.

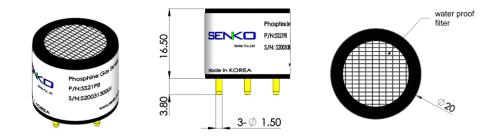


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### Specifications

Performance Characteristics				
Output Signal	1000±300 nA / ppm			
Typical Baseline Range (pure air)	$\pm 0.1$ ppm PH <sub>3</sub> equivalent			
T90 Response Time	<20 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			
Environmental				
Temperature Range Continuous	-20℃ to +50℃			
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 20ppm	20μΑ			
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

SENKO.CO.Ltd, 73, Oesammi-ro 15beon-gil, Osan-si, Gyeonggi-do, 18111, South Korea Telephone:+82-31-492-0445 Fax:+82-31-492-0446 E-mail:sales@senko.co.kr Website:www.senko.co.kr

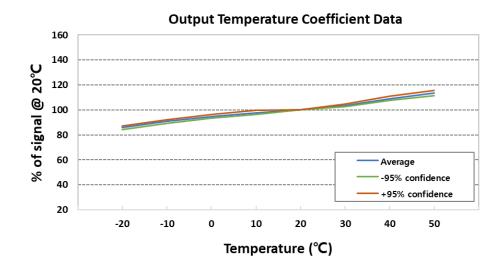
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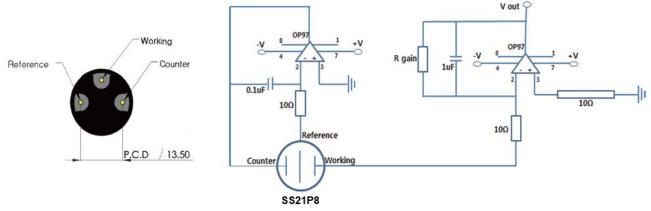
#### **Temperature effects**



### **Cross sensitivity**

Gas	Concentration [ppm]	Reading [ppm]	Gas	Concentration [ppm]	Reading [ppm]
Phosphine	5	5	Sulfur Dioxide	10	0
Carbon Monoxide	100	0	Nitrogen Dioxide	50	-5
Hydrogen	500	0	Ammonia	100	0
Hydrogen Sulfide	50	<6	Arsine	5	<1.5

### Standard operating circuit



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