

# Oxygen Gas Sensor

Product Data Sheet  
Model #SS2118

2019. Ver 1.0

## Applications

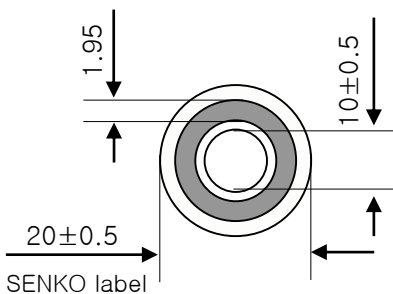
- Ideal for portable instrument
- Industry safety (ambient air monitoring applications)
- Combustion efficiency analysis
- Etc.



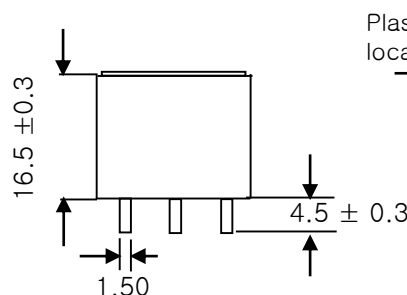
## Specifications

Performance Characteristics	
Sensor Type	Galvanic cell (lead-oxygen battery)
Measurement Range	0~25% Oxygen
Maximum Overload	30% Oxygen
Output Signal	90±20µA
T90 Response Time	<15 sec for 90% response
Zero current (offset)	<0.6 % vol O <sub>2</sub>
Linearity	Linear
Recommended Load Resistor	100 ohms
Environmental	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	5% to 95% 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 data od dispatch
Intrinsic Safety Data	
Maximum current in normal operation (pure O <sub>2</sub> )	0.01A
Maximum o/c Voltage (10 to 100% O <sub>2</sub> )	0.9V
Maximum s/c Current (10 to 100% O <sub>2</sub> )	0.5A

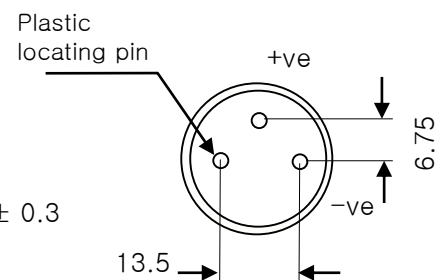
## Dimension



TOP view



SIDE view

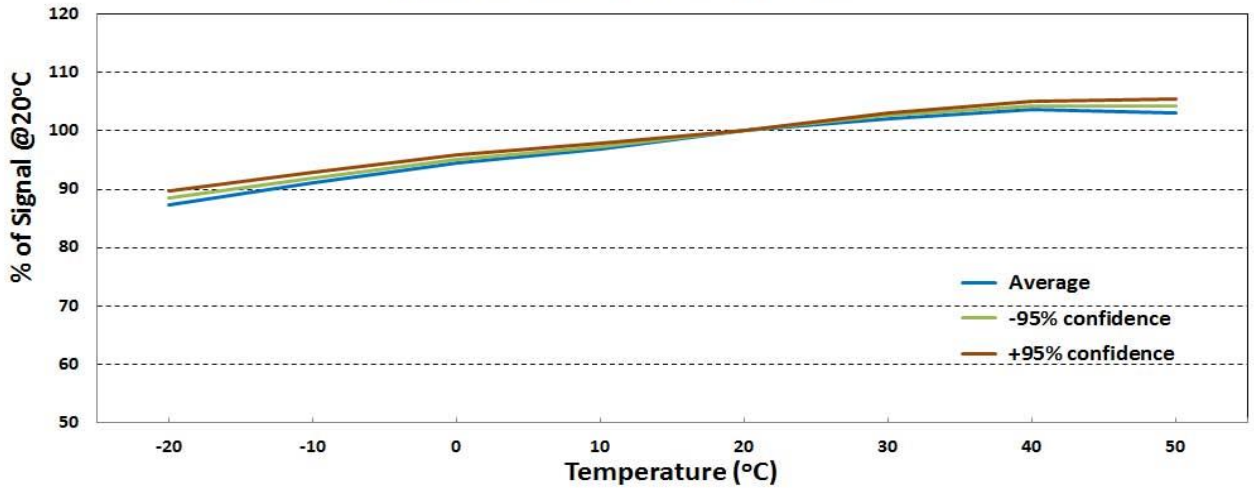


BOTTOM view

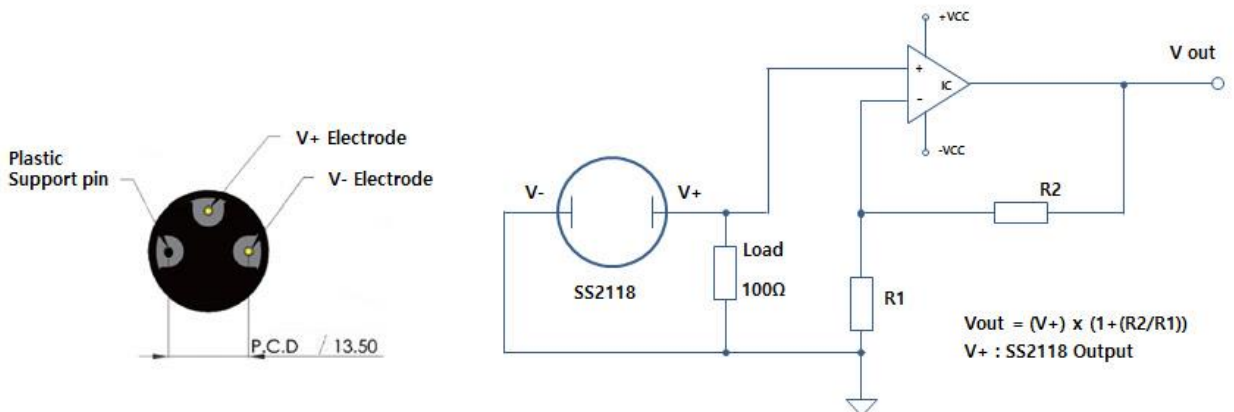
Due to ongoing research and product improvement, specifications are subject to change without notice

## Temperature effects

Output Temperature Coefficient Data



## Standard operating circuit



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