Formaldehyde Gas Sensor
(Low Ethanol Cross Sensitivity)

Product Data Sheet
Model #SS21F8_LE

2025. Ver 1.0

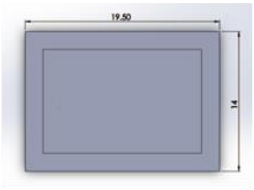
Applications & Features

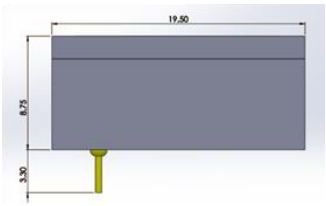
- Environmental monitoring of formaldehyde
- Ideal for portable instrument
- Indoor air monitoring applications
- Etc.

Specifications

Performance Characteristics	
Output Signal	60±20 nA / ppm
Typical Baseline Range (pure air, @ 20℃)	≤ ±0.03 ppm
Response Time (T90)	< 30 seconds
Filter	None
Measurement Range	0-10 ppm
Maximum Overload	20 ppm
Linearity	Linear
Repeatability	≤ ±3%
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	≤ 0.01 ppm typical
Bias Voltage	0 mV
Environmental	
Temperature Range Continuous	-10℃ to +40℃
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH
Lifetime	
Long Term Output Drift	< 10% per annum
Recommended Storage Temp	0℃ to 20℃
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch
Intrinsic Safety Data	
Maximum at 20 ppm	0.3 mA
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.

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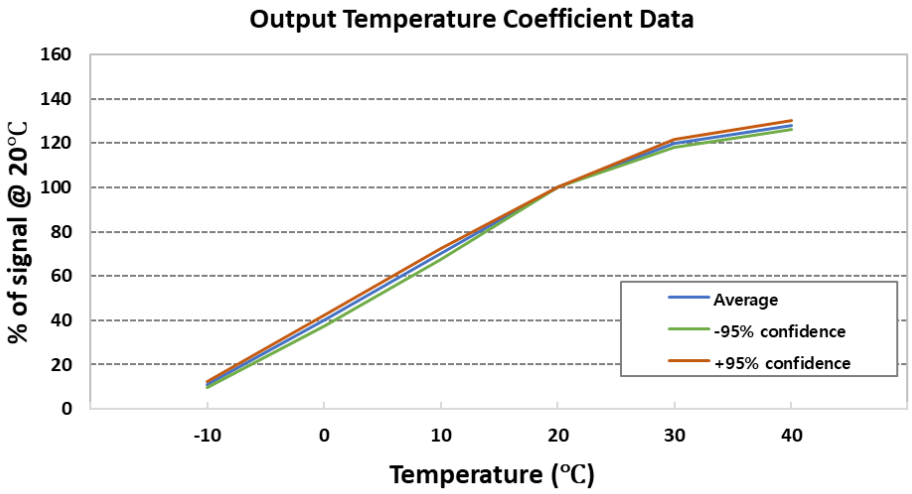
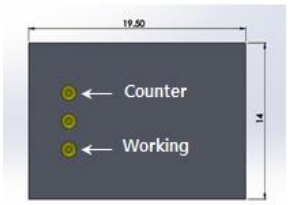
Temperature Effects

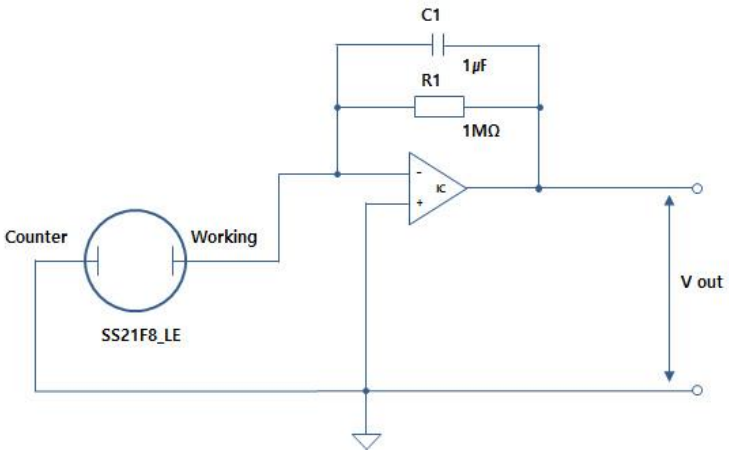


Cross Sensitivity

Gas	Cross Sensitivity (%)
Ammonia	0
Carbon Monoxide	0
Ethanol	≤ 3
Acetaldehyde	0
Toluene	0
Acetic Acid	0

Standard Operating Circuit





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