

# SS119 series mini pressure transducers

- Compact size  $\varnothing 15 \times 8.0\text{mm}$
- High performance-price ratio
- Minimum pressure lower to 10kpa
- Temperature compensated 0-60°C
- 1.0mA, 1.5mA constant current supply
- Measure non-conductive, non-corrosive gas



## Descriptions

SS119 series miniature pressure transducer is a low cost type piezoresistive pressure sensor, it has compact structure, but temperature compensated. The sensing parts-silicon chip is exposed to the air, not protected by oil or gel, this makes SS119 series high sensitivity, the minimum pressure could be 10KPa, but this exposed silicon chip also limit its application, typically to measure non-conductive and non-corrosive gas.

## Parameters

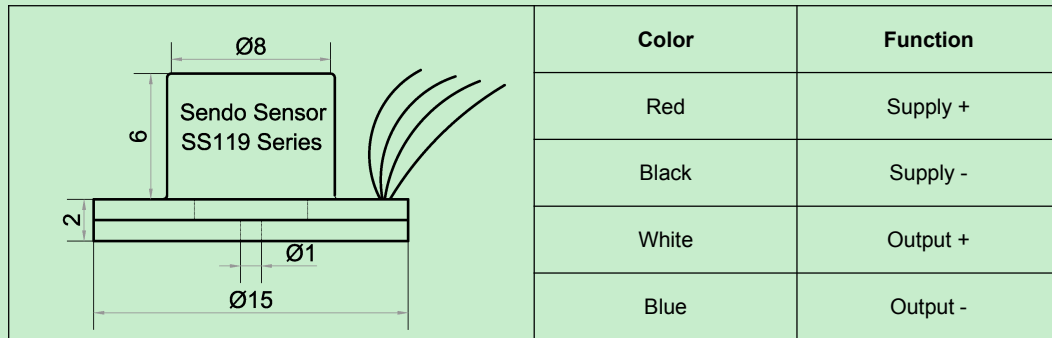
Power supply	1.5mADC (typical)
Zero output	$\pm 2\text{mV}$
Span output	$45 \pm 10\text{mV}$ ( $\leq 10\text{KPa}$ ) (typical)
	$100 \pm 20\text{mV}$ ( $> 10\text{KPa}$ ) (typical)
Accuracy	0.5%F.S. (typical)
Measuring range(Gauge)	0~10KPa...2.5MPa
Overload	2.0*F.S.
Temperature compensation	0~60°C
Operating temperature	-20~100°C
Storage temperature	-40~125°C
Zero thermal error	$\pm 0.02\%$ F.S./°C
Input impedance	2.3K $\Omega$ ~4K $\Omega$

## Constructions

O-ring	None
Diaphragm	None
Housing	Galvanized iron
Sensor	Silicon
Filling liquid	None
Electrical connection	10cm silicon rubber flexible wires
Diameter	$\varnothing 15\text{mm}$
Height	8mm
Weight	5g

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## Drawings & electrical connections



## Ordering information

EXAMPLE: **SS119 C 01**

1	Pressure range(bar) A(0.1) B(0.2) C(0.35) D(1.0) E(2.5) F(4.0) G(6.0) H(10) I(16) J(25)	<b>C</b>
2	Power supply 01 1.5mADC 02 1.0mADC	<b>01</b>

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