

SS311 series 4-20 mA piezoresistive pressure sensors

Features

- 4-20mA current output
- All stainless steel 316L structure
- Sealed gauge or absolute pressure
- Pressure ranges: 10bar, 16bar, 25bar, 40bar
- No external electronics for compensation or signal processing
- Standard diameter Ø19mm, extremely easy to integrated in overall systems
- Hermetically protected sensor electronics-extremely resistant to environmental influences



Descriptions

SS311 series 4-20mA piezoresistive pressure sensors combine a piezo-resistive pressure transducer with -40 to 105°C capable signal conditioning in one compact, easy-to-integrate package, the entire pressure sensor is embedded within a hermetically-sealed, oil-filled housing, is extremely resistant to environmental influences, and can be seamlessly integrated into the OEM product, achieving cost savings and system performance not possible with other conventional technologies.

SS311 series utilizes high-stability piezoresistive pressure transducers and innovative digital signal processing. Now, both pressure transducer and signal processor are integrated into a miniature, hermetically-sealed housing no larger than was once required for the sensor only.

Technical data

Performance (EN 60770)

Accuracy @ 25 °C	± 0.5% F.S. (incl. non-linearity, hysteresis and repeatability)
Response time	< 4 ms
Pressure range	10bar, 16bar, 25bar, 40bar
Overload pressure	2.0 × F.S.
Pressure type	sealed gauge, absolute
Long term stability	≤ 0.2% F.S./Year
Temperature coefficient	± 0.03% F.S./°C
Durability, P: 10-90% F.S.	> 10×10 ⁶ cycles

Electrical specifications

Supply voltage	12-36V
Output signal	4-20mA (2-wire)

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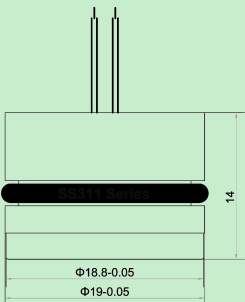
Environmental conditions

Medium temp range	-20 → +100 °C
Ambient temp range	-20 → +80 °C
Compensated temp range	0 → +70 °C
Insulation resistance	> 100 MΩ at 250 V

Mechanical characteristics

Materials	Wetted parts	Stainless steel 316L
	Enclosure	Stainless steel 316L
Weight	20g	

Electrical connections

	wire	function
	Red	Supply +
	Blue	Signal +

Part number chart (How to order)

PART NUMBER REQUIRED: **SS311.PL.01 (EXAMPLE)**

1	Pressure range(bar)	PL
	PL(0...10) PM(0...16) PN(0...25) PO(0...40) 1Z(Other pressure range or unit is on request)	
2	Pressure type	01
	01(Sealed gauge) 02(Absolute)	

Contact us

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*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com