

# SS311 series 4-20 mA piezoresistive pressure sensors

- 4-20mA current output
- All stainless steel 316L structure
- Sealed gauge or absolute pressure
- Wider temperature compensated:-10~70°C
- Pressure ranges: 10bar, 16bar, 25bar, 40bar
- AK Fluids US silicon oil, good bio-compatibility, nontoxicity
- 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 OEM pressure transmitters combine a piezo-resistive pressure sensor with -40...105°C capable signal conditioning in one compact, easy-to-integrate package.

SS311 series miniature pressure transmitters utilize high-stability piezoresistive pressure sensors and innovative digital signal processing. Now, both pressure sensor and signal processor are integrated into a miniature, hermetically-sealed housing no larger than was once required for the sensor only! The entire pressure transmitter is embedded within a hermetically-sealed, oil-filled housing, but that this transmitter can then be seamlessly integrated into the OEM product, achieving cost savings and system performance not possible with other conventional technologies.

## Technical data

### Performance (EN 60770)

Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)	±0.5% F.S.
Response time	< 4ms
Overload pressure	2.0 × F.S.
Pressure range	10bar, 16bar, 25bar, 40bar
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 <sup>6</sup> cycles

### Electrical specifications

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

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## Environmental conditions

Medium temperature range	-20°C → +100°C
Ambient temperature range	-20°C → +80°C
Compensated temperature range	-10°C → +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 +

## Ordering information

EXAMPLE: **SS311 A 01**

1	Pressure range(bar)	A A(0~10) B(0~16) C( 0~25) D(0~40)	A
	Pressure type		
01 Sealed gauge 02 Absolute			

## Contact us

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