

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 ⁶ cycles |

Electrical specifications

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

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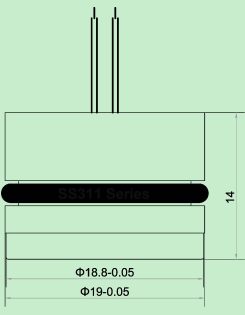
Environmental conditions

| | |
|-------------------------------|------------------|
| 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) | |
| 2 | Pressure type | 01 |
| | 01 Sealed gauge 02 Absolute | |

Contact us

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