

SS207 series low cost pressure transmitters

Features

- CE conformity
- O-ring sealing inside
- Low cost and high quality
- Compact, rugged construction
- -20 to 100 °C wider working temperature
- 0.5-4.5V, 0-5V, 1-5V, various voltage output
- Vented gauge, sealed gauge, absolute pressure
- A wide range of pressure and electrical connections



Stainless steel 316L diaphragm
Stainless steel sensor used inside

Descriptions

SS207 series low cost pressure sensor is supplied with a built in Packard Metri-Pack 150 electrical connector and customizable pressure connection, the housing is made from stainless steel with a choice of Internal O ring seals to select to ensure the product is suitable for fuel pressure, oil pressure, coolant pressure, brake line pressure, water pressure, automotive testing and many other applications. It is smart size, beautiful appearance, light weight only about 60g, all these make the SS207 series is ideal for high volume applications

A high performance piezoresistive pressure transducer is assembled in the housing, the transducer floats on an O-ring seal and is therefore free of any housing stresses, giving excellent long-term stability. The flexible pressure sensor programme covers absolute, sealed gauge and vented gauge versions, measuring ranges from 0-1 bar to 100 bar and can be customized for OEM applications.

Technical data

Performance (EN 60770)

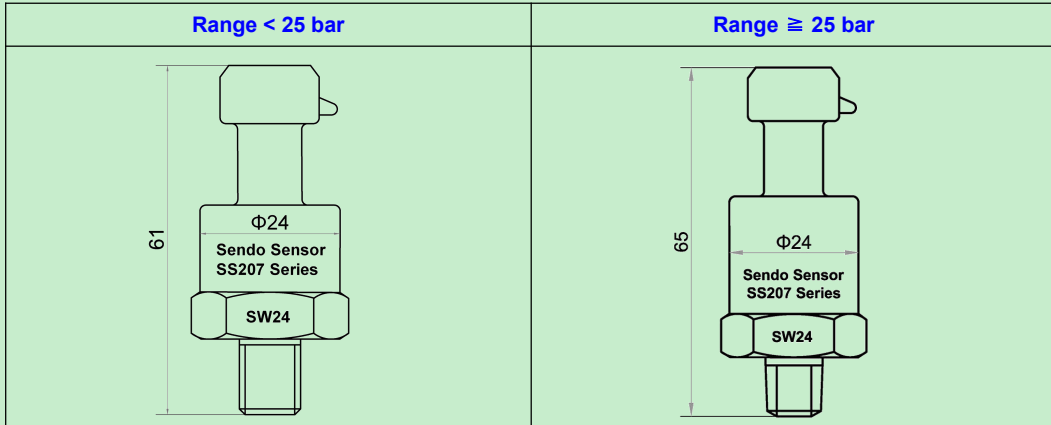
| | | | |
|-----------------------|--|------------------------|---------------------|
| Supply voltage | 5 VDC | 9 to 30 VDC (optional) | |
| Output signal | 0.5 to 4.5 V | 0 to 5 V (optional) | 1 to 5 V (optional) |
| Measuring range | Minimum range: 1 bar Maximum range: 100 bar See more details in page 3 (part number chart) | | |
| Proof pressure | 2.0 × F.S. (≤ 250 bar) | | |
| | 1.5 × F.S. (> 250 bar) | | |
| Accuracy | 1% F.S. @ 25 °C | | |
| | 3% F.S. @ -20 → 100 °C | | |
| Medium temp range | -20 → +100 °C | | |
| Ambient temp range | -20 → +80 °C (depending on electrical connection) | | |
| Insulation resistance | > 100 MΩ at 250 V | | |

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Mechanical characteristics

| | | |
|-----------------------|---|---|
| Materials | Diaphragm | Stainless steel 316L |
| | Housing | Stainless steel 304 |
| | Pressure connection | Stainless steel 304 |
| | Electrical connection | Depending on the connection type |
| | O-ring | FKM / Viton (typical) EPDM (optional) |
| Pressure connection | 1/8" NPT or 1/4" NPT | More options see page 3 (part number chart) |
| Electrical connection | 3-pin round Packard | |
| Weight | 100-200g (depending on pressure connection and electrical connection) | |
| Sealing rating | IP 65 (fulfilled together with mating connector) | |

Dimensions (Unit: mm)



Electrical connections

| Connections | Pin | Function | Color |
|-------------|-----|----------|-------|
| | 1 | Supply + | Red |
| | 2 | GND | Black |
| | 3 | Output + | Blue |

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Part number chart (How to order)

PART NUMBER REQUIRED: **SS207.PL.01.A.03.A.06 (EXAMPLE)**

| | | |
|---|---|----|
| 1 | Pressure range | PL |
| | NA(-1...0bar) PA(15psi) PB(30psi) PC(50psi) PD(75psi) PE(100psi) PF(150psi) PG(1bar) PH(1.6bar) PI(2.5bar) PJ(4bar) PK(7bar) PL(10bar) PM(16bar) PN(25bar) PO(40bar) PP(60bar) PQ(100bar) CA(-1...0.6bar) CB(-1...1.5bar) CC(-1...3bar) CD(-1...5bar) CE(-1...9bar) CF(-1...15bar) CG(-1...24bar) 1Z(Other pressure range or unit is on request) | |
| 2 | Pressure type | 01 |
| | 01(Gauge) 02(Absolute) | |
| 3 | Electrical connection | A |
| | A(3-pin round Packard) | |
| 4 | Pressure connection | 03 |
| | 01(1/4" NPT male) 02(1/2" NPT male) 03(1/8" NPT male) 04(G 1/4" male) 05(G 1/2" male) 06(G 1/8" male) 07(PT 1/4" male) 08(PT 1/2" male) 09(PT 1/8" male) 10(9/16-18 UNF male) 11(7/16-20 UNF male) 12(1/2-20 UNF male) 13(3/8-24 UNF male) 14(M10 x 1.25 male) 15(M14 x 1.5 male) 16(M20 x 1.5 male) 17(M10 x 1 male) 4Z(Other pressure connection is on request) | |
| 5 | Signal & supply | A |
| | A(0.5-4.5V & 5Vdc) B(0.5-4.5V & 9-30Vdc) C(0.2-4.5V & 5Vdc) D(0.2-4.5V & 9-30Vdc) E(1-5V & 9-30Vdc) F(0-5V & 9-30Vdc) G(0.5-4.5V & 5Vdc ratiometric) H(0-10V & 12-30V) 5Z(Other output signal is on request) | |
| 6 | Mating cable(Pig tail) | 06 |
| | 01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 6Z(Other length is on request) | |

Contact us

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



WARNING: DO NOT USE THIS PRODUCT AS SAFETY OR EMERGENCY STOP DEVICE OR IN ANY OTHER APPLICATION WHERE FAILURE OF THE PRODUCT COULD RESULT IN PERSONAL INJURY OR EVEN DEATH.