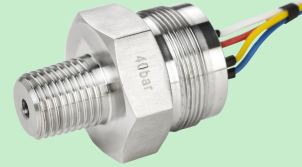


## SS121E27 series piezoresistive standard pressure transducers

- Customized size
- High accuracy, high reliability
- Stainless steel 316L diaphragm
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0 to 70°C temperature compensation range
- Isolated construction, able to test various media
- Absolute, gauge and sealed gauge pressure is optional



### Descriptions

SS121E27 series piezoresistive standard pressure transducers are of all welded stainless steel construction, with integral media isolation diaphragm, no 'O' ring seals are used, maximum pressure range up to 20MPa. The size of housing, and the pressure/screw connection can be designed according to the request. A high performance piezoresistive silicon chip is used inside makes the SS121E27 have a great working performance, the accuracy can be 0.25%F.S., offering improved reliability and significantly lower production costs. Two types of electrical connections pins or wires is optional.

The SS121E27 series are the ideal basis for pressure transmitters, pressure switches or digital pressure instruments.

### Parameters

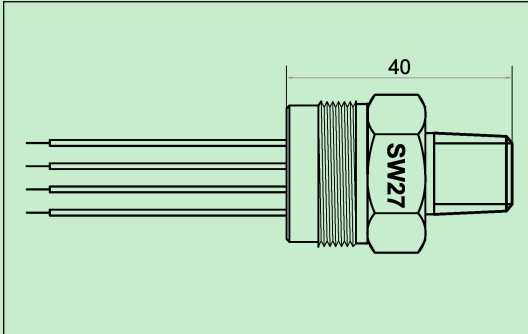
|                          |                                                                 |                    |
|--------------------------|-----------------------------------------------------------------|--------------------|
| Power supply             | 1.5mADC (typical)                                               | 5VDC is on request |
| Zero output              | ±2mV                                                            |                    |
| Span output              | 100±20mV (typical)                                              |                    |
| Accuracy                 | 0.25%F.S. (typical)                                             |                    |
| Measuring range          | 0...0.1bar to 200bar<br>-1...0bar, -1...1bar(negative pressure) |                    |
| Overload                 | 2.0*F.S.                                                        |                    |
| Temperature compensation | 0~70°C                                                          |                    |
| Operating temperature    | -20~100°C                                                       |                    |
| Storage temperature      | -40~125°C                                                       |                    |
| Zero thermal error       | ±0.02%F.S./°C                                                   |                    |
| Input impedance          | 2.3KΩ~4KΩ                                                       |                    |

### Constructions

|                       |                                    |                          |
|-----------------------|------------------------------------|--------------------------|
| Pressure connection   | See "ordering information"         |                          |
| Diaphragm             | Stainless steel 316L               |                          |
| Housing               | Stainless steel 304                |                          |
| Filling liquid        | Silicone oil                       |                          |
| Electrical connection | 10cm silicon rubber flexible wires | Kovar pins is on request |

# SS121E27 series piezoresistive standard pressure transducers

## Drawings & electrical connections

|                                                                                   |              |                 |
|-----------------------------------------------------------------------------------|--------------|-----------------|
|  | <b>Color</b> | <b>Function</b> |
|                                                                                   | Red          | Supply +        |
|                                                                                   | Black        | Supply -        |
|                                                                                   | White        | Output +        |
|                                                                                   | Blue         | Output -        |

## Ordering information

EXAMPLE: **SS121E27 J 01 B 01 A**

|   |                                                                                                                                                                |           |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1 | Pressure range(bar)                                                                                                                                            | <b>J</b>  |
|   | A(-1.0) B(-0.35) C(-0.2) D(0.2) E(0.35) F(1.0) G(2.5) H(4.0) I(6.0) J(10) K(16)<br>L(25) M(40) N(60) O(100) P(160) Q(200) R(Other range or unit is on request) |           |
| 2 | Pressure type                                                                                                                                                  | <b>01</b> |
|   | 01 Vented gauge 02 Absolute 03 Sealed gauge                                                                                                                    |           |
| 3 | Electrical connection                                                                                                                                          | <b>B</b>  |
|   | A 4Kovar pins B 4Wires C 5Kovar pins D 5Wires                                                                                                                  |           |
| 4 | Power supply                                                                                                                                                   | <b>01</b> |
|   | 01 1.5mADC 02 5VDC 03 10VDC 04 Other supply is on request                                                                                                      |           |
| 5 | Pressure connection                                                                                                                                            | <b>A</b>  |
|   | A(1/4"NPT) B(1/2"NPT) C(1/8"NPT) D(G1/4") E(G1/2") F(G1/8")<br>G(PT1/4") H(PT1/2") I(PT1/8") J(Other pressure connection is on request)                        |           |

Optional

|                                                     |  |
|-----------------------------------------------------|--|
| Material of wetted parts stainless steel 316L or Ti |  |
|-----------------------------------------------------|--|

## Contact us

|                         |                                                                                    |                             |
|-------------------------|------------------------------------------------------------------------------------|-----------------------------|
| Company                 | Ninghai sendo sensor co., Ltd                                                      |                             |
| Email                   | sales@sendo-sensor.com                                                             |                             |
| Email                   | cain.chen@sendo-sensor.com                                                         |                             |
| Address                 | Floor 5, building 2, no.48 jiujuan road, jianggan district, 310000 Hangzhou, China |                             |
| Website                 | http://www.pressuresensorsuppliers.com                                             | http://www.sendo-sensor.com |
| Skype: sendosensor      | We Chat: chenjie4884                                                               | WhatsApp: +8613616574884    |
| Tel: 0086-0574-27725960 | Fax: 0086-0574-27725970                                                            | Phone: 0086-13616574884     |

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