**Pressure Sensor for General Fluids**

**Series PSE570**

- **Proof pressure**: 435 psi (3.0 MPa) *(Twice as compared with the PSE560)*
- **Withstand voltage**: 500 VAC *(Twice as compared with the PSE560)*

**Enclosure**: IP65

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### Materials of parts in contact with fluid

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piping port *</td>
<td>C3604 + Nickel plating</td>
</tr>
<tr>
<td>Pressure sensor *</td>
<td>Al2O3 (Alumina 96%)</td>
</tr>
<tr>
<td>O-ring</td>
<td>FKM + Grease</td>
</tr>
</tbody>
</table>

* Stainless steel 316L is used for the PSE560. For details, refer to the [WEB catalog](#) or the Best Pneumatics No. 6.

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### Application examples

- **Liquid coolant pressure control**
- **Discharge pressure control for compressor**

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### Variations

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated pressure range</th>
<th>Proof pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSE570</td>
<td>0 - 145 psi (1 MPa)</td>
<td>435 psi (3.0 MPa)</td>
</tr>
<tr>
<td>PSE574</td>
<td>0 - 73 psi (500 kPa)</td>
<td>218 psi (1.5 MPa)</td>
</tr>
</tbody>
</table>
### Pressure Sensor Controller

**Series PSE200/300**

For details, refer to the WEB catalog or the Best Pneumatics No. 6.

### How to Order

**PSE57 [ ] 01 [ ]**

- **Sensor range**
  - Symbol | Description
  - 0 | Positive pressure (0 to 145 psi [0 to 1 MPa])
  - 4 | Positive pressure (0 to 73 psi [0 to 500 kPa])

- **Lead wire/Option**
  - Symbol | Description
  - Nil | With lead wire and M12 connector (3 m), Straight
  - N | None

- **Port size**
  - Symbol | Description
  - 01 | R1/8 (with M5 female thread)
  - 02 | R1/4 (with M5 female thread)

- **Output specifications**
  - Symbol | Description
  - Nil | Voltage output type (1 to 5 V)
  - 28 | Current output type (4 to 20 mA)

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### Specifications

#### Fluid specifications

- **Model**
  - PSE570
  - PSE574

- **Applicable fluid**
  - Gas or liquid that will not attack or corrode materials of parts in contact with fluid

- **Power supply voltage**
  - 12 to 24 VDC ±10% with ±10% voltage ripple or less

- **Current consumption**
  - 10 mA or less

- **Protection**
  - Reverse connection protection

- **Analog output**
  - Output: Analog output: 1 to 5 V
    - Output impedance: Approx. 1 kΩ
  - Output: Analog output: 4 to 20 mA
    - Maximum load impedance: 500 Ω or less (at 24 VDC)
    - 100 Ω or less (at 12 VDC)

- **Analog output accuracy**
  - ±1.0% F. S.
  - ±0.2% F. S. (Ambient temperature at 77°F [25°C])

- **Linearity**
  - ±0.5% F. S.

- **Repeatability**
  - ±0.2% F. S. (Ambient temperature at 77°F [25°C])

#### Environmental specifications

- **Enclosure**
  - IP65

- **Withstand voltage**
  - 500 VAC for 1 minute between terminals and housing

- **Insulation resistance**
  - 100 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing

- **Operating temperature range**
  - Operating: 14 to 140°F (−10 to 60°C)
  - Stored: −4 to 158°F (−20 to 70°C) (No freezing or condensation)

- **Operating humidity range**
  - Operating/Stored: 35 to 85% RH (No condensation)

#### Standards

- CE, RoHS

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### Piping Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>01</th>
<th>02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port size</td>
<td>R1/8</td>
<td>M5 x 0.8</td>
</tr>
<tr>
<td></td>
<td>R1/4</td>
<td>M5 x 0.8</td>
</tr>
</tbody>
</table>

- **Materials of parts in contact with fluid**
  - Piping port: C3604 + Nickel plating
  - Pressure sensor: Al2O3 (Alumina 96%)
  - O-ring: FKM + Grease

- **Weight**
  - Without cable: 88 g
  - With cable: 175 g

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### Lead wire and M12 connector ZS-37-A

1: Brown
2: White
3: Blue
4: Black