SPT25 Series Pressure Transmitters

The ProSense SPT25 pressure transmitter series is engineered to meet many industrial, commercial, and OEM pressure measurement applications. The all stainless steel welded thin film sensing element provides very fast response time and is compatible with many different media sensing applications. With a robust design resistant to vibration, shock, and EMI/RFI, the SPT25 series provides high accuracy over a wide compensated temperature range. Pressure sensing ranges from vacuum to 5000 psig are available along with a ¼ inch NPT male threaded process connection. Choose from linear outputs of 4-20 mA or 0-10VDC with electrical connections of either a DIN 175301-803C L-connector or 6.6 foot (2 m) integral shielded cable.

Applications
- Process control & automation
- Pump & compressor control
- Hydraulic systems
- Pneumatic systems
- Engine monitoring
- Refrigeration equipment
- Presses
- Machine tools

Features
- All stainless steel welded sensing element
- Fast response time
- Pressure sensing ranges from vacuum to 5000 psig
- 1/4 inch NPT male threaded process connection
- Output options: 4-20 mA or 0-10 VDC
- Integral 6.6 foot shielded cable or DIN form C electrical connections
- Made in the USA
- CE marked
- 3-year warranty

Click on the thumbnail or go to https://www.automationdirect.com/VID-PR-0001 for a short video on ProSense Air Differential and Pressure Transmitters

For the latest prices, please check AutomationDirect.com.
## ProSense SPT25 Series Pressure Transmitters (DIN Connector)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Electrical Connection</th>
<th>Input Voltage</th>
<th>Wt(lb)</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>SPT25-20-V30D</td>
<td>Pressure transmitter, 4 to 20 mA output, -14.7 vacuum to 30 psig range, 1/4&quot; NPT male port</td>
<td>DIN 175301-803C</td>
<td>9 - 36 VDC</td>
<td>0.30</td>
<td>$117.00</td>
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<tr>
<td>SPT25-20-0030D</td>
<td>Pressure transmitter, 4 to 20 mA output, 0 to 30 psig range, 1/4&quot; NPT male port</td>
<td>L-connector</td>
<td>14 - 36 VDC</td>
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<td>$117.00</td>
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<tr>
<td>SPT25-20-0060D</td>
<td>Pressure transmitter, 4 to 20 mA output, 0 to 60 psig range, 1/4&quot; NPT male port</td>
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<tr>
<td>SPT25-20-0100D</td>
<td>Pressure transmitter, 4 to 20 mA output, 0 to 100 psig range, 1/4&quot; NPT male port</td>
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<td>Pressure transmitter, 4 to 20 mA output, 0 to 150 psig range, 1/4&quot; NPT male port</td>
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### Shielded Cable Models Wire Designation

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<thead>
<tr>
<th>Wire Color</th>
<th>0 - 10 VDC Output</th>
<th>4 - 20 mA Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>V+</td>
<td>V+</td>
</tr>
<tr>
<td>Black</td>
<td>Com</td>
<td>Output</td>
</tr>
<tr>
<td>White</td>
<td>Output</td>
<td>None</td>
</tr>
<tr>
<td>Bare*</td>
<td>Shield Drain Wire</td>
<td>Shield Drain Wire</td>
</tr>
</tbody>
</table>

* Where shielded wiring is being used: Connect the drain wire to the guard terminal on the read out device or measuring instrument if available. In all other cases connect to the power supply negative terminal.

### 0 to 10 VDC Output Wiring Diagram

- **With DIN Connector**
  - 1: Red (V+)
  - 2: Black (Com)
  - 3: White (Output)

- **With Integral Cable**
  - 1: Red (V+)
  - 2: Black (Com)
  - 3: White (Output)
  - 4: Shield (Bare)

### 4 to 20 mA Output Wiring Diagrams

- **With DIN Connector**
  - 1: Red (V+)
  - 2: Black (Com)

- **With Integral Cable**
  - 1: Red (V+)
  - 2: Black (Com)

### DIN Form C Models Pin Designation

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>0 - 10 VDC Output</th>
<th>4 - 20 mA Output</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>V+</td>
<td>V+</td>
</tr>
<tr>
<td>2</td>
<td>Com</td>
<td>Output</td>
</tr>
<tr>
<td>3</td>
<td>Output</td>
<td>None</td>
</tr>
<tr>
<td>4</td>
<td>Case Ground</td>
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</tbody>
</table>
ProSense SPT25 Series Pressure Transmitters

ProSense SPT25 Series General Specifications

- **Housing Material:** 20% Glass Reinforced Nylon, Fire retardant to UL94 V1 / 304 Series Stainless Steel
- **Materials (wetted parts)**:** 304 Series Stainless steel / 17-4PH Stainless Steel
- **Operating Temperature:** –40 to 257°F (–40 to 125°C)
- **Medium Temperature:** –40 to 257°F (–40 to 125°C)
- **Storage Temperature:** –40 to 257°F (–40 to 125°C)
- **Protection:** IP 67 for cabled models
- **IP 65 For DIN connector models**
- **Accuracy:** ± 0.50% of full range
- **Temperature Coefficient:** 0.15% of full range / 10°F (0.25% of full range / 10°C)
- **Reference Temperature:** 70°F ± 1°F (21°C ± 1°C)
- **Compensated Temperature:** –4 to 185°F (–20 to 85°C)
- **Insulation Resistance:** Greater than 100 megohms at 100 VDC
- **Shock Resistance:** 100 gs, 6 ms
- **Vibration Resistance:** Random vibration (20 g) over temperature range (-40° to 125°C), Exceeds typical MIL. STD. requirements
- **Drop Test:** Withstands 1 meter on concrete 3 axis
- **Response Time:** Less than 1 ms ecc
- **Warm-up time:** Less than 500 ms
- **Position Effect:** Less than ±0.01% span, typical
- **Insulation Breakdown Voltage:** 100 VAC
- **Reverse Polarity & Miswired Protected:** Yes
- **Durability:** Tested to 50 million cycles
- **Humidity:** 0 to 100% R.H., no effect
- **Stability:** Less than ±0.25% full range / year
- **Agency Approvals:** CE

*Note - Includes non-linearity, hysteresis & non-repeatability.

** Not cleaned for oxygen service

ProSense SPT25 Series Technical Specifications

**Technical Specifications SPT25-20-xxxx**

- **Operating Voltage:** 9 – 36 VDC
- **Analog Output:** 4 – 20 mA
- **Maximum Load:** Determine Maximum Loop Resistances
- **Minimum Load:** For example [1.622 VAC – 9 VDC] / 0.022 amps = 73Ω

**Technical Specifications SPT25-10-xxxx**

- **Operating Voltage:** 14 – 36 VDC
- **Current Consumption:** 4 mA
- **Minimum Load:** 10 kΩ

**Power Supply Voltage vs Loop Resistance**

- **4-20mA ONLY**

- **Loop Supply Voltage vs Loop Resistance**

**DIN Connector Specifications**

- **Number of contacts:** 3 + PE
- **Cable glands:** PG 7
- **Conductor size max.:** 0.75 mm² / 18AWG
- **Type of termination:** Screw
- **Suitable cables:** 4.5 mm to 6 mm
- **Standard DIN:** EN 175 301-803-C

**DIN Connector Models**

- **Dimensions:** inches [mm]

**Shielded Cable Models**

**Dimensions:**

- **DIN Connector Models**
- **Shielded Cable Models**

**See our website www.AutomationDirect.com for complete Engineering drawings.**

For the latest prices, please check AutomationDirect.com.