# DPTA Series Differential Air Pressure Transmitters

The ProSense DPTA differential pressure transmitter series is precision engineered for accurate low differential pressure measurement of air and non-condensing, non-corrosive gases in industrial, commercial, and OEM applications. Its highly reliable, ultra-thin single silicon crystal diaphragm capacitive sensor provides inherent repeatability and stability with no glues or other organics to contribute to drift or mechanical degradation over time. The DPTA series is available in ranges from 0.1 inches w.c. to 25 inches w.c. to measure positive, negative, and bi-directional pressures with the ability to withstand 15 psig overpressure without damage or calibration shift. The easily accessible brass barbed pressure ports, removable terminal blocks, and rugged ABS housing capable of DIN rail or panel mounting make installation quick and easy.

## Features
- Highly stable capacitive sensing element
- Positive, negative, and bi-directional pressure measurement
- Pressure ranges from 0.1"w.c. to 25"w.c.
- Accuracy is +/-1% of full range maximum
- High overpressure rating of 15 psig without damage or calibration shift
- Rugged ABS housing capable of DIN rail or panel mounting
- LED loop power status indicator
- Made in the USA
- CE marked
- 3-year warranty

## Applications
- HVAC duct static pressure
- Air filter monitoring
- Building pressurization
- Isolation and clean rooms
- Fume hoods
- Furnace, oven, dryer draft pressure
- Air flow measurement

## Specifications

<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>
</tr>
</thead>
<tbody>
<tr>
<td>DPTA-20-P1</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 0.1 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
<td>12 - 36 VDC</td>
<td>0.16</td>
<td>$116.00</td>
</tr>
<tr>
<td>DPTA-20-P1B</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, -0.1 to +0.1 water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
<td>12 - 36 VDC</td>
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<tr>
<td>DPTA-20-P25</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 0.25 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
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<tr>
<td>DPTA-20-P25B</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, -0.25 to +0.25 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
<td>12 - 36 VDC</td>
<td>0.16</td>
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<tr>
<td>DPTA-20-P5</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 0.5 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
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<td>Differential Pressure transmitter, 4 to 20 mA output, -0.5 to +0.5 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
<td>12 - 36 VDC</td>
<td>0.16</td>
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<td>DPTA-20-01</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 1.0 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
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<td>$111.00</td>
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<tr>
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<td>Differential Pressure transmitter, 4 to 20 mA output, -1.0 to +1.0 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
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<tr>
<td>DPTA-20-02</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 2.0 in. water column range, 1/4&quot; brass barbed connections</td>
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<tr>
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<td>Differential Pressure transmitter, 4 to 20 mA output, -2.0 to +2.0 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
<td>12 - 36 VDC</td>
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<tr>
<td>DPTA-20-03</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 3.0 in. water column range, 1/4&quot; brass barbed connections</td>
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<td>DPTA-20-05</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 5.0 in. water column range, 1/4&quot; brass barbed connections</td>
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<tr>
<td>DPTA-20-10</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 10.0 in. water column range, 1/4&quot; brass barbed connections</td>
<td>Screw Terminals</td>
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<tr>
<td>DPTA-20-15</td>
<td>Differential Pressure transmitter, 4 to 20 mA output, 0 to 15.0 in. water column range, 1/4&quot; brass barbed connections</td>
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<td>DPTA-20-15B</td>
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For the latest prices, please check AutomationDirect.com.
ProSense DPTA Series Specifications

Operating Voltage 12 – 36 VDC
Output Range* 4 - 20 mA (2-wire)
Supply Current* 21.5 mA Max.

Maximum Load
\[ V_L - 12 \text{ VDC} = R_L \]
\[ 0.022 \text{ amps} \]
For example
\[ \frac{(24 \text{ VDC} - 12 \text{ VDC})}{0.022 \text{ amps}} = 545\Omega \]

Enclosure NEMA Type 1 Fire-retardant ABS (meets UL 95-5VA)
Pressure Connections 1/4" brass barbed fittings
Weight 0.16 lb
Media Clean, dry and non-corrosive gas
Mounting Threaded fastener and 35mm DIN rail mount
Reference Temperature 70°F ± 2°F (21°C ± 1°C)

Temperature Coefficients - Zero & Span ±0.03% full range / °F
Compensated Range 35 to 130°F (2 to 54°C)
Operating Temperature 0 to 160°F (–18 to 71°C)
Storage Temperature –40 to 180°F (–40 to 82°C)
Humidity 10 to 95% R.H., non-condensing
Stability Less than ±0.25% full range / year
Accuracy ±1% maximum. Includes non-linearity, hysteresis, nonrepeatability, zero offset and span setting errors.
Response Time 250 msec
Proof Pressure 15 psig
Burst Pressure 25 psig
Max. Static Line Pressure 15 psig
Electrical Connection Euro style pluggable terminal block accepts 12-26 gauge wire
Terminal Screw Torque 4 lbs in (0.5 Nm)
Reverse Wiring Protected Yes
External Zero Adjustment ±5% full range
External Span Adjustment ±5% full range
Agency Approvals CE, RoHS

* Output signal is independent of power supply changes.

Load Limitations 4–20mA Output

Load Limitations 4–20mA Output

Mounting Options
- Use #10 screw
- Use #8 screw
- Use #8 screw
- Use #10 screw

NOTE: ProSense DPTA series transmitter should be mounted in a vertical and upright position as shown above.

Mounting horizontally may affect accuracy by an additional 1%.

Dimensions [inches [mm]]

Wiring Diagram

DN-3PLUGMN can be used as a replacement terminal block.

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