**VERY-HIGH-ACCURACY AMPLIFIED VOLTAGE OUTPUT TRANSUDER**

**7/16-20 OR 1/4 NPT CONNECTIONS**

**PX01 Series**
- 0 to 5 Vdc Output
- 0-2 to 0-30,000 psi
- 0-150 mbar to 0-2000 bar

**Model No.** | **Price** | **Description**
--- | --- | ---
EE-2584 | $230 | Reference Book: Process Plant Instrumentation

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**OMEGA's PX01 Series pressure transducers are very high-accuracy, amplified voltage output units for industrial applications. Their all stainless steel construction and hermetically sealed case make them suitable for harsh environments. An FM Intrinsically Safe rating is standard. A broad temperature-compensated range of 15 to 71°C (60 to 160°F) and excellent temperature compensation make these transducers very stable with fluctuating temperatures.**

The PX01 is available in gage, absolute, or sealed models, as well as in psi or metric ranges. NPT and 7/16-20 O-ring seal fittings are available for industrial and Hydraulic applications.

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**To Order (Specify Model Number)**

<table>
<thead>
<tr>
<th>RANGE</th>
<th>Connector Style – Absolute Pressure (All Ranges Available in Absolute Pressure)</th>
<th>Connector Style – Gage Pressure (All Ranges Also Available in Sealed Gage Pressure)</th>
</tr>
</thead>
<tbody>
<tr>
<td>psi</td>
<td>MODEL NO.</td>
<td>PRICE</td>
</tr>
<tr>
<td>0 to 10</td>
<td>PX01K1-010A5T $955</td>
<td>PX01C1-010A5T $975</td>
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<tr>
<td>0 to 15</td>
<td>PX01K1-015A5T 955</td>
<td>PX01C1-015A5T 975</td>
</tr>
<tr>
<td>0 to 20</td>
<td>PX01K1-020A5T 955</td>
<td>PX01C1-020A5T 975</td>
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<tr>
<td>0 to 25</td>
<td>PX01K1-025A5T 955</td>
<td>PX01C1-025A5T 975</td>
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<td>0 to 50</td>
<td>PX01K1-050A5T 885</td>
<td>PX01C1-050A5T 905</td>
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<td>0 to 75</td>
<td>PX01K1-075A5T 835</td>
<td>PX01C1-075A5T 855</td>
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<tr>
<td>0 to 100</td>
<td>PX01K1-100A5T 835</td>
<td>PX01C1-100A5T 855</td>
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<td>0 to 150</td>
<td>PX01K1-150A5T 835</td>
<td>PX01C1-150A5T 855</td>
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<td>0 to 200</td>
<td>PX01K1-200A5T 835</td>
<td>PX01C1-200A5T 855</td>
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<td>0 to 250</td>
<td>PX01K1-250A5T 835</td>
<td>PX01C1-250A5T 855</td>
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<td>0 to 500</td>
<td>PX01K1-500A5T 835</td>
<td>PX01C1-500A5T 855</td>
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<tr>
<td>0 to 1000</td>
<td>PX01K1-1000A5T 835</td>
<td>PX01C1-1000A5T 855</td>
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<tr>
<td>0 to 2000</td>
<td>PX01K1-2000A5T 835</td>
<td>PX01C1-2000A5T 855</td>
</tr>
<tr>
<td>0 to 3000</td>
<td>PX01K1-3000A5T 835</td>
<td>PX01C1-3000A5T 855</td>
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<td>0 to 5000</td>
<td>PX01K1-5000A5T 835</td>
<td>PX01C1-5000A5T 855</td>
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<tr>
<td>0 to 7500</td>
<td>PX01K1-7500A5T 835</td>
<td>PX01C1-7500A5T 855</td>
</tr>
<tr>
<td>0 to 10,000**</td>
<td>PX01K1-10000A5T 835</td>
<td>PX01C1-10000A5T 855</td>
</tr>
<tr>
<td>0 to 20,000**</td>
<td>PX01K1-20000A5T 835</td>
<td>PX01C1-20000A5T 855</td>
</tr>
</tbody>
</table>

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**Starts at $835**

- 0.05% Linearity
- Internal Shunt Resistor for Easy System Checks
- FM Intrinsically Safe
- 5-Point Calibration Provided
- All Stainless Steel Construction
- Hermetically Sealed Design for Harsh Environments
- Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges
- Cable or Connector Models
- Optional Pressure Ports to Fit Most Industrial Applications

OMEGA's PX01 Series pressure transducers are very high-accuracy, amplified voltage output units for industrial applications. Their all stainless steel construction and hermetically sealed case make them suitable for harsh environments. An FM Intrinsically Safe rating is standard. A broad temperature-compensated range of 15 to 71°C (60 to 160°F) and excellent temperature compensation make these transducers very stable with fluctuating temperatures.

The PX01 is available in gage, absolute, or sealed models, as well as in psi or metric ranges. NPT and 7/16-20 O-ring seal fittings are available for industrial and Hydraulic applications.

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**ORDERING EXAMPLES:**
- PX01K1-1KG5T, 1000 psi gage transducer with 0 to 5 V output, twist lock connector and 7/16-20 female pressure connection, $835, PT06F-10-6S, mating connector (not included), $26.50.
- PX01S1-20KG5T, $855, shown smaller than actual size.

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**ACCESSORY**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PRICE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE-2584</td>
<td>$230</td>
<td>Reference Book: Process Plant Instrumentation</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

Excitation: 24 to 32 Vdc
Output: 0 to 5 Vdc ±0.03 Vdc
Linearity: 0.05% FSO
Hysteresis: 0.05% FSO
Repeatability: ±0.05% FSO
Zero Balance: 0 V ±0.01 Vdc
Agency Approvals: Standard FM Intrinsically Safe IS/I.II.III/1/CDEFG

Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber (except gage units)

Shunt Calibration Value: 80% FS

Operating Temp Range: -46 to 121°C (-50 to 250°F)
Compensated Temp Range: 16 to 71°C (60 to 160°F)

Thermal Effects:
- Span: 0.002% of rdg/°F
- Zero: 0.001% of FSO/°F

Proof Pressure: 150% of rated pressure
Burst Pressure: 300% of rated pressure

**Wetted Parts:** 17-4 PH stainless steel

**Pressure Port:**
- Ranges <10,000 psi:
  - Style "K": ¼-18 NPT-M
  - Style "D": ¼-18 NPT-F, no charge
  - Models ≥10,000 psi:
  - Style "J": 7/16-20 UNF-M
  - Style "K": 7/16-20 UNF-F, no charge
- Ranges ≥10,000 psi:
  - Style "S": ½ HP tube fitting, no charge
  - Models ≥10,000 psi:
  - Style "S": ½ HP tube fitting, no charge

**Electrical Connection:**
- Style "1" = PTIH-10-6P or equal
- Style "0" = 3 m (10') 6-cond. cable

**Mating Connector:**
- PT06F-10-6S (not included)

**Weight:** 388 g (13.7 oz)

**CUSTOM CONFIGURATIONS**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>PRESSURE PORT</th>
<th>ELECTRICAL CONNECTION</th>
<th>RANGE (psi)</th>
<th>UNITS</th>
<th>OUTPUT</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX01</td>
<td></td>
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<td>1</td>
<td></td>
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</tr>
<tr>
<td>Models &lt;1,000 psi</td>
<td>002*</td>
<td>S,G,A</td>
<td>V = mV/V output base price</td>
<td>OL = Overload stops $65</td>
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</tr>
<tr>
<td>C = ¼-18 NPT-M +$20 005* S,G,A 10 T = 0 to 5 Vdc output +$155 all ranges</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D = ¼-18 NPT-F, no charge 010 S,G,A 05T = 0 to 10 Vdc output +$155 all ranges</td>
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<td></td>
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</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OL = Overload stops +$65</td>
</tr>
<tr>
<td>1</td>
<td>PTIH-10-6P connector</td>
<td>(or equal, no charge).</td>
<td>002* S,G,A</td>
<td>V = mV/V output base price</td>
<td>OL = Overload stops +$65</td>
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<tr>
<td>3</td>
<td>Mating connector</td>
<td>(not included), order</td>
<td>005* S,G,A</td>
<td>10 T = 0 to 5 Vdc output +$155 all ranges</td>
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<td></td>
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<tr>
<td>4</td>
<td>PT06F-10-6S</td>
<td>$26.50</td>
<td>010 S,G,A</td>
<td>05T = 0 to 10 Vdc output +$155 all ranges</td>
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<tr>
<td>6</td>
<td>DIN connector</td>
<td>020 S,G,A</td>
<td>03K S,G,A</td>
<td>03K S,G,A</td>
<td>03K S,G,A</td>
<td>03K S,G,A</td>
</tr>
</tbody>
</table>

* 2 and 5 psi ranges available only on amplified output.
* Supplied with ½ HP tube fitting.

Metric ranges available – consult Engineering.

To order a custom configuration:
1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units
5. Select output
6. Select options and agency approvals

**Ordering Examples:** PX01C1-100GI, 100 psi gage pressure transducer with ¼-18 NPT-M male fitting, PTIH-10-6P, connector and 4 to 20mA output, $680 + 175 + 19 = $874, PT06F-10-6S, mating connector (not included), $26.50, PX01K0-1KSSZ, 1000 sealed gage pressure transducer with ¼-20 UNF female fitting, 3 m (10') cable, isolated 0 to 5 Vdc output, $690 + 190 = $870, PX01J1-015AST, 16 psi absolute pressure transducer with ¼-20 UNF male fitting, PTIH-10-6P, connector, 0 to 5 Vdc output, $680 + 155 + 19 = $854.

PT06F-10-6S, mating connector (not included), $26.50.
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**
  Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers, Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

- **Heaters**