PX409 Series

Starts at $475

- 0.08% BSL Includes Linearity Hysteresis and Repeatability
- Broad Temperature Compensation Range -29 to 85°C (-20 to 185°F)
- 5-Point NIST Traceable Calibration Included
- Outputs:
  - mV/V
  - 0 to 5 V or 0 to 10 V
  - 4 to 20 mA
- 10 in-H₂O to 5000 psi Ranges

PX409-100GV, $475, shown actual size.

PX419-015GV, $475, shown actual size.

PX429-030GV, $475, shown actual size.

Coming Soon! Differential Pressure Models

Most Popular Models in Stock for Fast Delivery

RUGGEDIZED DESIGN For Aerospace, Automotive, Test and Industrial Applications
PX409 Series

mV/V, 0 to 5 Vdc, 0 to 10 Vdc, 4 to 20 mA Outputs
Low Pressure: 10 in-H2O and
Standard Ranges: 5 to 5000 psi
Metric Ranges: 25 mbar to 345 bars
Gage or Absolute Pressure

Starts at
$475
mV/V models

- High Accuracy ±0.08% BSL
  Includes Linearity, Hysteresis, and Repeatability
- Broad Temperature Compensated Range
  -29 to 85°C (-20 to 185°F)
- Premium Temperature Performance
  Span: ±0.5% over Compensated Range
- 5-Point NIST Traceable Calibration Included
- Low Pressure Ranges from 10 in-H2O
- All Stainless Steel Wetted Parts
- Fast Response Time
- Solid State Reliability and Stability
- Gage and Absolute Pressures
- 300% Proof Pressure Minimum

Omega piezoresistive pressure transducers have a proven record in high performance commercial and aerospace applications for over 25 years. The piezoresistive process uses strain gages molecularly embedded into a highly stable silicon wafer. The silicon wafer is diced into individual die which each contain a full strain gage bridge. The die is mounted in a sealed chamber protected from the environment by glass to metal seals and a stainless steel diaphragm.

A small volume of silicone oil transfers the pressure from the diaphragm to the strain bridge. The construction provides a very rugged transducer with exceptional accuracy, stability and thermal effects. A unique design ruggedizes the transducers by providing secondary fluid containment in the event of a diaphragm rupture.

At our state-of-the-art facilities, automated test equipment performs pressure and temperature cycling on 100% of the PX409 transducers. The transducers are then calibrated using extremely high accuracy equipment and a 5-point NIST traceable calibration certificate is included with each transducer. The inherent stability of the piezoresistive core provides excellent long term stability, repeatability and very low thermal effects at the price of much lower performance transducers. Standard features of the PX409 Series also include protective features built into the electronics and the pressure element. Reverse polarity, EMC, and power supply fluctuation protection are standard on all models. Intrinsically Safe and CSA ratings are optional.

The most popular ranges and configurations are stocked for immediate delivery. All others typically have very short lead-time.
**High Accuracy Pressure Transducers**

**Piezoresistive Design with High Temperature Performance**

**Exceptional Performance**

*0.08% Static Accuracy*

Micro-Machined Silicon

5-Point NIST Traceable Calibration Certificate

**Common Specifications**

**Gage and Absolute Pressure**

- **Approvals:** RoHS compliant
- **Minimum Isolation Between Case and Output Terminations:** 100 MΩ @ 50 Vdc
- **Pressure Cycles:** 1 million, minimum
- **Long Term Stability (1-Year):** ±0.1% FS typical
- **Shock:** 50 g, 11 mS half sine, vertical and horizontal axis
- **Vibration:** 5-2000-5 Hz, 30 minute cycle, Curve L, Mil-Spec 810 figure 514-2-2, vertical and horizontal axis
- **Bandwidth:** DC to 1 kHz typical
- **Response Time:** <1 mS
- **CE Compliant:**
- **Emissions:** IEC550022 Class B
- **Electrostatic Discharge Immunity:** IEC1000-4-2

**EM Field Immunity:** IEC61000-4-3

**EFT Immunity:** IEC61000-4-4

**Surge Immunity:** IEC61000-4-5

**Conducted RF:** IEC610000-4-6

**Rate Power Frequency Magnetic Field:** IEC61000-4-8

**Environmental Protection:**
- PX409: IP67
- PX409C: IP67
- PX419: IP65
- PX429: IP65

**Overpressure Gage Pressure:**
- 10-in H2O: 10 times span
- 1 psi: 6 times span
- 2.5 psi to 3500 psi: 4 times span
- 5000 psi: 15,000 psi max

**Overpressure Absolute Pressure:**
- 5 psia: 6 times span
- 2.5 psia to 3500 psia: 4 times span
- 5000 psia: 15000 psi max

**Secondary Containment**

**Gage/Diff/Vac/Compound:**
- 10-in H2O to 5 psi: To 1000 psi
- 15 to 1000 psi: To 3000 psi
- 1500 to 5000 psi: To 15,000 psi

**Absolute/Barometric:**
- 5 to 1000 psi: To 6000 psia
- 1500 to 5000 psi: To 15,000 psia

**Wetted Parts:** 316 SS

**Pressure Port:** ¼-18 NPT male

**Weight:** 115 to 200 gm (4 to 7 oz) depending upon configuration

**Thermal Effects -29 to 85°C (-20 to 185°F)**

**Span Error:** 100 psig

**Ruggedized Design**

For Aerospace, Automotive, Test and Industrial Applications

**Custom Configurations Available!**

Designed to be quickly customized to meet your exacting specifications, often with fast delivery. Custom variables are available including custom fittings, accuracies, ranges, calibrations, pressure units, thermal specifications, vibration, operating temperature and compensated range. Contact OMEGA Pressure Engineering for more details.

**B-25c**
PX409 Series
100 mV Output
0-10 in-H2O to 0-5000 psi
25 mb to 345 bar

Stock Delivery for most Ranges!
Visit omega.com

Ordering Examples:
PX409-10WG, $475, shown actual size.
PX429-015GV, $475, shown actual size.
PX419-015GV, $475, shown actual size.

mV/V Specifications
Output: mV/V, 100 mV @ 10 Vdc
(Ratiometric 5 to 10 Vdc)
Supply Voltage: 10 Vdc
(5 mA @ 10 Vdc)
Input/Output Resistance: 5000 Ω
±20% typical
Accuracy (Combined Linearity,
Hysteresis and Repeatability):
±0.08% BSL max
Zero Balance: ±0.5% FS typical
1% max (1% typical, 2% max
for 1 psi and below)
Span Setting: ±0.5% FS typical
1% max (1% typical, 2% max
for 1 psi and below)
Calibrated in vertical direction with
fitting down
Operating Temperature Range:
-45 to 121°C (-49 to 250°F)
Compensated Temperature:
Ranges >5 psi: -29 to 85°C
(-20 to 185°F)
Ranges ≤5 psi: -17 to 85°C
(0 to 185°F)
Thermal Effects Zero
(Over Compensated Range):
Ranges >5 psi: ±0.5% span
Ranges ≤5 psi: ±1.0% span
Thermal Effects Span
(Over Compensated Range):
Ranges >5 psi: ±0.5% span
Ranges ≤5 psi: ±1.0% span

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>RANGE</th>
<th>2 m (6’) CABLE TERMINATION</th>
<th>MINI-DIN TERMINATION</th>
<th>TWIST-LOCK TERMINATION</th>
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mV/V OUTPUT, ABSOLUTE PRESSURE RANGES

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Ordering Examples:
PX409-1.0KG, mV output, 1000 psi gage pressure range.
2m (6’) cable termination, $475. PX429-015AV, mV output, 15 psi absolute pressure, twist
lock termination, PT06F10-6S, mating twist lock connector (sold separately), and
DP25B-S, 4-digit meter, $520 + 26.50 + 245 = $791.50 system with meter.
(See page B-25h for information on meters).

B-25d
**0 TO 5 Vdc OUTPUT**

**HIGH PERFORMANCE PRESSURE TRANSDUCERS**

**PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE**

### PX409 Series

**0 to 5 Vdc Output**

- **0-10 in-H2O to 0-5000 psi**
- **25 mb to 0-345 bar**

**Starts at $545**

![PX409-100G5V, $545, shown actual size.](image)

### Amplified Voltage Output Specifications

**Output:**
- **0 to 5 Vdc Supply Voltage:** 10 to 30 Vdc@10 mA
- **0 to 10 Vdc Supply Voltage:** 15 to 30 Vdc@10 mA

**Accuracy (Combined Linearity, Hysteresis and Repeatability):** ±0.08% BSL max

**Zero Balance:** ±0.5% FS typical 1% max (1% typical, 2% max for 1 psi and below)

**Span Setting:** ±0.5% FS typical 1% max (1% typical, 2% max for 1 psi and below). Calibrated in vertical direction with fitting down

**Operating Temperature Range:**
- -45 to 115°C (-49 to 240°F)

**Compensated Temperature:**
- **Ranges >5 psi:** -29 to 85°C (-20 to 185°F)
- **Ranges ≤5 psi:** -17 to 85°C (0 to 185°F)

**Thermal Effects Zero**
- **(Over Compensated Range):** ±0.5% span
- **(Over Compensated Range):** ±1.0% span

**Thermal Effects Span**
- **(Over Compensated Range):** ±0.5% span
- **(Over Compensated Range):** ±1.0% span

### To Order (Specify Model Number)

**RANGE**

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<tr>
<th>psi</th>
<th>bar</th>
<th>2 m (6') CABLE TERMINATION</th>
<th>MINI-DIN TERMINATION</th>
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**0 to 5 Vdc OUTPUT, ABSOLUTE PRESSURE RANGES**

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<th>mb</th>
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<th>TWIST-LOCK TERMINATION</th>
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**Note:** To order with 0 to 10 Vdc output, change “5V” to “10V” no extra charge.

**Ordering Examples:** PX409-1.0KG5V, 5 V output, 1000 psi gage pressure range, 2m (6') cable termination, $545. PX429-015A5V, 5 V output, 15 psi absolute pressure, twist lock termination, PT06F10-6S, mating twist lock connector (sold separately), and DP25B-E, 4-digit meter, $545 + 26.50 + 245 = $816.50 system with meter.

*(See page B-25h for information on meters).*

**Most Popular Models Highlighted!**

![Stock Delivery for most Ranges! Visit omega.com](image)
4 TO 20 mA OUTPUT
HIGH PERFORMANCE PRESSURE TRANSMITTERS
PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE

PX409 Series
4 to 20 mA Output
0-10 in-H₂O to 0-5000 psi
25 mb to 0-345 bar

PX409-100GI, $545, shown actual size.

4 to 20 mA Specifications
Output: 4 to 20 mA
Supply Voltage: 9 to 30 Vdc
max loop res Ω = (Vs-9)x50
[9 to 20 Vdc above 105°C (229°F)]
Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL max
Zero Balance: ±0.5% FS typical 1% max
(1% typical, 2% max for 1 psi and below)
Span Setting: ±0.5% FS typical 1% max
(1% typical, 2% max for 1 psi and below).
Calibrated in vertical direction with fitting down
Operating Temperature Range:
-45 to 115°C (-49 to 240°F)
Compensated Temperature:
Ranges >5 psi: -29 to 85°C (-20 to 185°F)
Ranges ≤5 psi: -17 to 85°C (0 to 185°F)
Thermal Effects Zero
(Over Compensated Range):
Ranges >5 psi: ±0.5% span
Ranges ≤5 psi: ±1.0% span
Thermal Effects Span
(Over Compensated Range):
Ranges >5 psi: ±0.5% span
Ranges ≤5 psi: ±1.0% span

To Order (Specify Model Number)

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<th>2 m (6’) CABLE TERMINATION</th>
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<th>TWIST-LOCK TERMINATION</th>
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<tr>
<td>100</td>
<td>6.9</td>
<td>PX409-100GI</td>
<td>545</td>
<td>PX419-100GI</td>
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<td>150</td>
<td>10.3</td>
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<td>545</td>
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<td>250</td>
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<td>PX409-250GI</td>
<td>545</td>
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<td>500</td>
<td>34.5</td>
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<td>545</td>
<td>PX419-500GI</td>
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<td>750</td>
<td>51.7</td>
<td>PX409-750GI</td>
<td>545</td>
<td>PX419-750GI</td>
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<tr>
<td>1000</td>
<td>69</td>
<td>PX409-1.0KGI</td>
<td>545</td>
<td>PX419-1.0KGI</td>
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<td>1500</td>
<td>103</td>
<td>PX409-1.5KGI</td>
<td>545</td>
<td>PX419-1.5KGI</td>
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<tr>
<td>2500</td>
<td>172</td>
<td>PX409-2.5KGI</td>
<td>545</td>
<td>PX419-2.5KGI</td>
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<tr>
<td>3500</td>
<td>241</td>
<td>PX409-3.5KGI</td>
<td>545</td>
<td>PX419-3.5KGI</td>
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<tr>
<td>5000</td>
<td>345</td>
<td>PX409-5.0KGI</td>
<td>545</td>
<td>PX419-5.0KGI</td>
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<tr>
<td>4 to 20 mA OUTPUT, GAGE PRESSURE RANGES</td>
<td></td>
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<table>
<thead>
<tr>
<th>RANGE</th>
<th>2 m (6’) CABLE TERMINATION</th>
<th>MINI-DIN TERMINATION</th>
<th>TWIST-LOCK TERMINATION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>psi</td>
<td>bar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>345 mb</td>
<td>PX409-005AI</td>
<td>$545</td>
<td>PX419-005AI</td>
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<td>15</td>
<td>1.0</td>
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<td>545</td>
<td>PX419-015AI</td>
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<td>30</td>
<td>2.1</td>
<td>PX409-030AI</td>
<td>545</td>
<td>PX419-030AI</td>
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<td>3.4</td>
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<td>100</td>
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<td>PX409-1.0KAI</td>
<td>545</td>
<td>PX419-1.0KAI</td>
</tr>
</tbody>
</table>

4 to 20 mA ABSOLUTE PRESSURE RANGES

Ordering Examples: PX409-1.0KGI, 4 to 20 mA output, 1000 psi gage pressure range,
2m (6’) cable termination, $545. PX429-015AI, 4 to 20 mA output, 15 psi absolute pressure,
twist lock termination. PT06F10-6S, mating twist lock connector (sold separately), and DP25B-E,
4-digit meter, $545 + 26.50 + 245 = $816.50 system with meter.
(See B-25h for information on meters).

Starts at $545

MOST POPULAR MODELS HIGHLIGHTED!
Stock Delivery for most Ranges!
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PX409 Series
4 to 20 mA Output
0-10 in-H₂O to 0-5000 psi
25 mb to 0-345 bar

PX409-015GI, $545, shown actual size.

PX419-100GI, $545, shown actual size.

PX429-015AI, $545, shown actual size.
**HIGH ACCURACY PRESSURE TRANSUDCERS** PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE

PX409-100GI, $545, shown smaller than actual size.

PX419-100GI, $545, shown smaller than actual size.

PX429-015GI, $545, shown smaller than actual size.

- PX419-015GI, $545, shown smaller than actual size.

**PX429 TWIST LOCK PINOUT**

<table>
<thead>
<tr>
<th>PIN</th>
<th>mV</th>
<th>5/10V</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>+ EXC</td>
<td>+ EXC</td>
<td>+ Supply</td>
</tr>
<tr>
<td>B</td>
<td>– EXC</td>
<td>Common</td>
<td>– Supply</td>
</tr>
<tr>
<td>C</td>
<td>+ SIG</td>
<td>+ Output</td>
<td>NC</td>
</tr>
<tr>
<td>D</td>
<td>– SIG</td>
<td>NC</td>
<td>NC</td>
</tr>
<tr>
<td>E</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
</tr>
<tr>
<td>F</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
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</tbody>
</table>

**COMPATIBLE METERS AND ACCESSORIES**

**METERS**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PRICE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP41-S</td>
<td>$545</td>
<td>6-digit high accuracy (0.005%) strain meter for use with mV/V output models</td>
</tr>
<tr>
<td>DP41-E</td>
<td>545</td>
<td>6-digit high accuracy (0.005%) process meter for use with voltage and current output models</td>
</tr>
<tr>
<td>DP41-B</td>
<td>595</td>
<td>6-digit high accuracy (0.005%) universal meter for use with voltage and current output models also accepts thermocouple and RTD inputs</td>
</tr>
<tr>
<td>DP25B-S</td>
<td>245</td>
<td>4-digit precision strain meter for use with mV/V output models</td>
</tr>
<tr>
<td>DP25B-E</td>
<td>245</td>
<td>4-digit precision process meter for use with voltage and current output models</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PRICE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX5302</td>
<td>$15.00</td>
<td>Extra mini-DIN connector for PX419 Series</td>
</tr>
<tr>
<td>PT06F10-6S</td>
<td>26.50</td>
<td>Mating twist lock connector for PX429 Series</td>
</tr>
<tr>
<td>PS-4G</td>
<td>10.00</td>
<td>Pressure snubber for air/gaseous media</td>
</tr>
<tr>
<td>PS-4E</td>
<td>10.00</td>
<td>Pressure snubber for water or light oils</td>
</tr>
<tr>
<td>PS-4D</td>
<td>10.00</td>
<td>Pressure snubber for dense liquids (motor oil)</td>
</tr>
</tbody>
</table>
To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PRICE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP25B-E</td>
<td>$245</td>
<td>Voltage/current input with excitation in</td>
</tr>
<tr>
<td>DP25B-S</td>
<td>$245</td>
<td>mV input in excitation</td>
</tr>
</tbody>
</table>

All Models $245

mV, V, mA, Strain Gage Inputs
Full Process Unit Scaling
Built-In Transducer Power

Process and Strain Models
Because they accept a wide range of DC voltage and current inputs, the DP25-B-E strain meters can handle most process and strain applications. Features include easy front-panel scaling to virtually any engineering units, a remote tare function for weighing applications, and a hardware lockout to prevent unauthorized changes in setup. In addition, the DP25B-E meters feature built-in excitation in 4 user-selectable voltages, which makes them compatible with most transducers and transmitters.

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- Dynamic Load
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