

HIGH ACCURACY PRESSURE TRANSDUCERS



PX409 Series

Starts at
£318

- ✓ 0.08% BFSL 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 (25mbar) to 5000 psi (345bar) Ranges

PX409-100GV,
£318, shown
actual size.



RUGGEDIZED DESIGN
For Aerospace,
Automotive, Test and
Industrial Applications

PX419-015GV,
£318, shown
actual size.



PX429-030GV, £318,
shown actual size.



Coming Soon!
Differential
Pressure Models



**Most Popular
Models in Stock for
Fast Delivery**



SOLID STATE PIEZORESISTIVE DESIGN WITH HIGH TEMP. PERFORMANCE FOR INDUSTRY, AUTOMOTIVE, TEST, AND AEROSPACE 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
Gauge or Absolute Pressure

Starts at
£318
 mV/V models



All models shown
 actual size.

PX409-050GV, £318,
 features cable
 termination.

**0.08%
 Accuracy**

PX419-100GI,
 £365, features
 mini-DIN termination.

PX429-015GI,
 £365, features
 twist-lock termination.

**Stock Delivery for
 most Ranges!
 Visit omega.com**

- ✓ High Accuracy $\pm 0.08\%$ BFSL
 Includes Linearity, Hysteresis,
 and Repeatability
- ✓ Broad Temperature Compensated Range
 -29 to 85°C (-20 to 185°F)
- ✓ Premium Temperature Performance
 Span: $\pm 0.5\%$ over Compensated Range
- ✓ 5-Point NIST Traceable Calibration
 Included
- ✓ Low Pressure Ranges from 10 in-H₂O(25mbar)
- ✓ All Stainless Steel Wetted Parts
- ✓ Fast Response Time
- ✓ Solid State Reliability and Stability
- ✓ Gauge 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 gauges molecularly embedded into a highly stable silicon wafer. The silicon wafer is diced into individual die which each contain a full strain gauge 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 ruggedises 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 Series transducers. The transducers are then calibrated using extremely high accuracy equipment and a 5-point NIST traceable

PX409 SERIES SILICON WAFER TECHNOLOGY

PX409 Series uses a highly stable silicon wafer which is micro-machined to precision tolerances and then has strain gauges molecularly embedded into it.

Strain gauges shown larger than actual size.

Strain gauge shown magnified 500%

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.

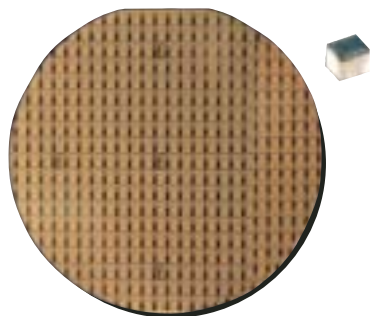
HIGH ACCURACY PRESSURE TRANSDUCERS

PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE



EXCEPTIONAL PERFORMANCE
0.08% STATIC ACCURACY

Micro-Machined Silicon



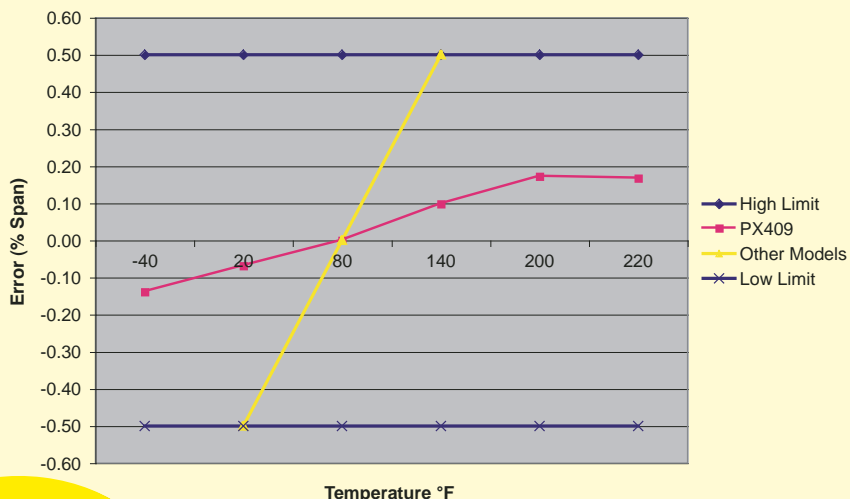
5-Point NIST Traceable Calibration Certificate



RUGGEDIZED DESIGN
For Aerospace,
Automotive, Test and
Industrial Applications

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

Span Error: 100 psig



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 UK sales department.

Common Specifications Gage and Absolute Pressure

Approvals: RoHS compliant

Minimum Isolation Between Case and Output Terminations:

100M Ω @ 50 Vdc

Pressure Cycles: 1 million, minimum

Long Term Stability (1-Year): ±0.1% FS typical

Shock: 50g, 11 mS half sine shock (under test)

Vibration: ±20g (under test)

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: IEC61000-4-6

Rate Power Frequency Magnetic Field: IEC61000-4-8

Electrical Termination:

PX409: Integral 2 m (6') cable

PX409C: Integral 2 m (6') cable with 1/2" NPT conduit fitting

PX419: mini-DIN

PX429: Twist lock

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: 1/4"-18 NPT male

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



mV/V OUTPUT HIGH PERFORMANCE PRESSURE TRANSDUCERS

PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE

PX409 Series
100 mV Output
0-10 in-H₂O to 0-5000 psi
25 mbar to 345 bar

Starts at
£318



PX409-100GV,
£318, shown
actual size.



PX419-015GV,
£318, shown
actual size.

Stock Delivery for
most Ranges!
Visit omega.com

MOST POPULAR MODELS HIGHLIGHTED!



PX429-015GV,
£318, shown
actual size.

mV/V Specifications

Output: mV/V, 100 mV @ 10 Vdc
(Ratiometric 5 to 10 Vdc)

Supply Voltage: 10 Vdc

Input/Output Resistance: 5000 Ω
±20% typical

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

RANGE		2 m (6") CABLE	PRICE	MINI-DIN	PRICE	TWIST-LOCK	PRICE
psi	bar	TERMINATION		TERMINATION		TERMINATION	
mV/V OUTPUT, GAGE PRESSURE RANGES							
10 in-H ₂ O	25 mbar	PX409-10WGV	£352	PX419-10WGV	£352	PX429-10WGV	£352
1	69 mbar	PX409-001GV	352	PX419-001GV	352	PX429-001GV	352
2.5	172 mbar	PX409-002GV	352	PX419-002GV	352	PX429-002GV	352
5	345 mbar	PX409-005GV	318	PX419-005GV	318	PX429-005GV	318
15	1.0	PX409-015GV	318	PX419-015GV	318	PX429-015GV	318
30	2.1	PX409-030GV	318	PX419-030GV	318	PX429-030GV	318
50	3.4	PX409-050GV	318	PX419-050GV	318	PX429-050GV	318
100	6.9	PX409-100GV	318	PX419-100GV	318	PX429-100GV	318
150	10.3	PX409-150GV	318	PX419-150GV	318	PX429-150GV	318
250	17.2	PX409-250GV	318	PX419-250GV	318	PX429-250GV	318
500	34.5	PX409-500GV	318	PX419-500GV	318	PX429-500GV	318
750	51.7	PX409-750GV	318	PX419-750GV	318	PX429-750GV	318
1000	69	PX409-1.0KGV	318	PX419-1.0KGV	318	PX429-1.0KGV	318
1500	103	PX409-1.5KGV	318	PX419-1.5KGV	318	PX429-1.5KGV	318
2500	172	PX409-2.5KGV	318	PX419-2.5KGV	318	PX429-2.5KGV	318
3500	241	PX409-3.5KGV	318	PX419-3.5KGV	318	PX429-3.5KGV	318
5000	345	PX409-5.0KGV	318	PX419-5.0KGV	318	PX429-5.0KGV	318
mV OUTPUT, ABSOLUTE PRESSURE RANGES							
5	345 mbar	PX409-005AV	£348	PX419-005AV	£348	PX429-005AV	£348
15	1.0	PX409-015AV	348	PX419-015AV	348	PX429-015AV	348
30	2.1	PX409-030AV	348	PX419-030AV	348	PX429-030AV	348
50	3.4	PX409-050AV	348	PX419-050AV	348	PX429-050AV	348
100	6.9	PX409-100AV	348	PX419-100AV	348	PX429-100AV	348
150	10.3	PX409-150AV	348	PX419-150AV	348	PX429-150AV	348
250	17.2	PX409-250AV	348	PX419-250AV	348	PX429-250AV	348
500	34.5	PX409-500AV	348	PX419-500AV	348	PX429-500AV	348
750	51.7	PX409-750AV	348	PX419-750AV	348	PX429-750AV	348
1000	69	PX409-1.0KAV	348	PX419-1.0KAV	348	PX429-1.0KAV	348

Ordering Examples: PX409-1.0KGV, mV output, 1000 psi gauge pressure range,
2m (6") cable termination, £318.

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,
£348 + 17.75 + 164 = £529.75 system with meter.

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

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 mbar to 0-345 bar

PX409-005A5V,
£352, shown
actual size.



PX419-100G5V,
£352, shown
actual size.

Stock Delivery for
most Ranges!
Visit omega.com

Starts at
£ **352**



PX429-015G5V,
£352, shown
actual size.

MOST POPULAR MODELS HIGHLIGHTED!

B

To Order (Specify Model Number)

RANGE		2 m (6") CABLE TERMINATION	PRICE	MINI-DIN TERMINATION	PRICE	TWIST-LOCK TERMINATION	PRICE
psi	bar						
0 to 5 Vdc OUTPUT, GAGE PRESSURE RANGES							
10 in-H ₂ O	25 mb	PX409-10WG5V	£385	PX419-10WG5V	£385	PX429-10WG5V	£385
1	69 mb	PX409-001G5V	385	PX419-001G5V	385	PX429-001G5V	385
2.5	172 mb	PX409-002G5V	385	PX419-002G5V	385	PX429-002G5V	385
5	345 mb	PX409-005G5V	352	PX419-005G5V	352	PX429-005G5V	352
15	1.0	PX409-015G5V	352	PX419-015G5V	352	PX429-015G5V	352
30	2.1	PX409-030G5V	352	PX419-030G5V	352	PX429-030G5V	352
50	3.4	PX409-050G5V	352	PX419-050G5V	352	PX429-050G5V	352
100	6.9	PX409-100G5V	352	PX419-100G5V	352	PX429-100G5V	352
150	10.3	PX409-150G5V	352	PX419-150G5V	352	PX429-150G5V	352
250	17.2	PX409-250G5V	352	PX419-250G5V	352	PX429-250G5V	352
500	34.5	PX409-500G5V	352	PX419-500G5V	352	PX429-500G5V	352
750	51.7	PX409-750G5V	352	PX419-750G5V	352	PX429-750G5V	352
1000	69	PX409-1.0KG5V	352	PX419-1.0KG5V	352	PX429-1.0KG5V	352
1500	103	PX409-1.5KG5V	352	PX419-1.5KG5V	365	PX429-1.5KG5V	352
2500	172	PX409-2.5KG5V	352	PX419-2.5KG5V	365	PX429-2.5KG5V	352
3500	241	PX409-3.5KG5V	352	PX419-3.5KG5V	352	PX429-3.5KG5V	352
5000	345	PX409-5.0KG5V	352	PX419-5.0KG5V	352	PX429-5.0KG5V	352
0 to 5 Vdc OUTPUT, ABSOLUTE PRESSURE RANGES							
5	345 mb	PX409-005A5V	£352	PX419-005A5V	£352	PX429-005A5V	£352
15	1.0	PX409-015A5V	352	PX419-015A5V	352	PX429-015A5V	352
30	2.1	PX409-030A5V	352	PX419-030A5V	352	PX429-030A5V	352
50	3.4	PX409-050A5V	352	PX419-050A5V	352	PX429-050A5V	352
100	6.9	PX409-100A5V	352	PX419-100A5V	352	PX429-100A5V	352
150	10.3	PX409-150A5V	352	PX419-150A5V	352	PX429-150A5V	352
250	17.2	PX409-250A5V	352	PX419-250A5V	352	PX429-250A5V	352
500	34.5	PX409-500A5V	352	PX419-500A5V	352	PX429-500A5V	352
750	51.7	PX409-750A5V	352	PX419-750A5V	352	PX429-750A5V	352
1000	69	PX409-1.0KA5V	352	PX419-1.0KA5V	352	PX429-1.0KA5V	352

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 gauge pressure range, 2m (6") cable termination, £352.

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, £352 + 17.75 + 164 = £533.75 system with meter.

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

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% BFSL 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



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 mbar to 0-345 bar

Starts at
£365



PX409-500GI,
£365, shown
actual size.



PX419-100GI,
£365, shown
actual size.

Stock Delivery for
most Ranges!
Visit omega.com



PX429-015GI,
£365, shown
actual size.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

RANGE		2 m (6') CABLE TERMINATION	PRICE	MINI-DIN TERMINATION	PRICE	TWIST-LOCK TERMINATION	PRICE
psi	bar						
4 to 20 mA OUTPUT, GAGE PRESSURE RANGES							
10 in-H ₂ O	25 mbar	PX409-10WGI	£399	PX419-10WGI	£399	PX429-10WGI	£399
1	69 mbar	PX409-001GI	399	PX419-001GI	399	PX429-001GI	399
2.5	172 mbar	PX409-002GI	399	PX419-002GI	399	PX429-002GI	399
5	345 mbar	PX409-005GI	365	PX419-005GI	365	PX429-005GI	365
15	1.0	PX409-015GI	365	PX419-015GI	365	PX429-015GI	365
30	2.1	PX409-030GI	365	PX419-030GI	365	PX429-030GI	365
50	3.4	PX409-050GI	365	PX419-050GI	365	PX429-050GI	365
100	6.9	PX409-100GI	365	PX419-100GI	365	PX429-100GI	365
150	10.3	PX409-150GI	365	PX419-150GI	365	PX429-150GI	365
250	17.2	PX409-250GI	365	PX419-250GI	365	PX429-250GI	365
500	34.5	PX409-500GI	365	PX419-500GI	365	PX429-500GI	365
750	51.7	PX409-750GI	365	PX419-750GI	365	PX429-750GI	365
1000	69	PX409-1.0KGI	365	PX419-1.0KGI	365	PX429-1.0KGI	365
1500	103	PX409-1.5KGI	365	PX419-1.5KGI	365	PX429-1.5KGI	365
2500	172	PX409-2.5KGI	365	PX419-2.5KGI	365	PX429-2.5KGI	365
3500	241	PX409-3.5KGI	365	PX419-3.5KGI	365	PX429-3.5KGI	365
5000	345	PX409-5.0KGI	365	PX419-5.0KGI	365	PX429-5.0KGI	365
4 to 20 mA ABSOLUTE PRESSURE RANGES							
5	345 mbar	PX409-005AI	£365	PX419-005AI	£365	PX429-005AI	£365
15	1.0	PX409-015AI	365	PX419-015AI	365	PX429-015AI	365
30	2.1	PX409-030AI	365	PX419-030AI	365	PX429-030AI	365
50	3.4	PX409-050AI	365	PX419-050AI	365	PX429-050AI	365
100	6.9	PX409-100AI	365	PX419-100AI	365	PX429-100AI	365
150	10.3	PX409-150AI	365	PX419-150AI	365	PX429-150AI	365
250	17.2	PX409-250AI	365	PX419-250AI	365	PX429-250AI	365
500	34.5	PX409-500AI	365	PX419-500AI	365	PX429-500AI	365
750	51.7	PX409-750AI	365	PX419-750AI	365	PX429-750AI	365
1000	69	PX409-1.0KAI	365	PX419-1.0KAI	365	PX429-1.0KAI	365

4 to 20 mA Specifications

Output: 4 to 20 mA
Supply Voltage: 9 to 30 Vdc
max loop res $\Omega = (Vs-9) \times 50$
[9 to 20 Vdc above 105°C (229°F)]

Accuracy (Combined Linearity, Hysteresis and Repeatability): $\pm 0.08\%$ BFSL max

Zero Balance: $\pm 0.5\%$ FS typical 1% max (1% typical, 2% max for 1 psi and below)

Span Setting: $\pm 0.5\%$ 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: $\pm 0.5\%$ span

Ranges ≤ 5 psi: $\pm 1.0\%$ span

Thermal Effects Span

(Over Compensated Range):

Ranges >5 psi: $\pm 0.5\%$ span

Ranges ≤ 5 psi: $\pm 1.0\%$ span

Ordering Examples: PX409-1.0KGI, 4 to 20 mA output, 1000 psi gage pressure range, 2m (6') cable termination, £365.

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, £365 + 17.75 + 164 = £546.75 system with meter.

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

HIGH ACCURACY PRESSURE TRANSDUCERS

PIEZORESISTIVE DESIGN
WITH HIGH TEMPERATURE PERFORMANCE



PX409-100GI, £365, shown smaller than actual size.

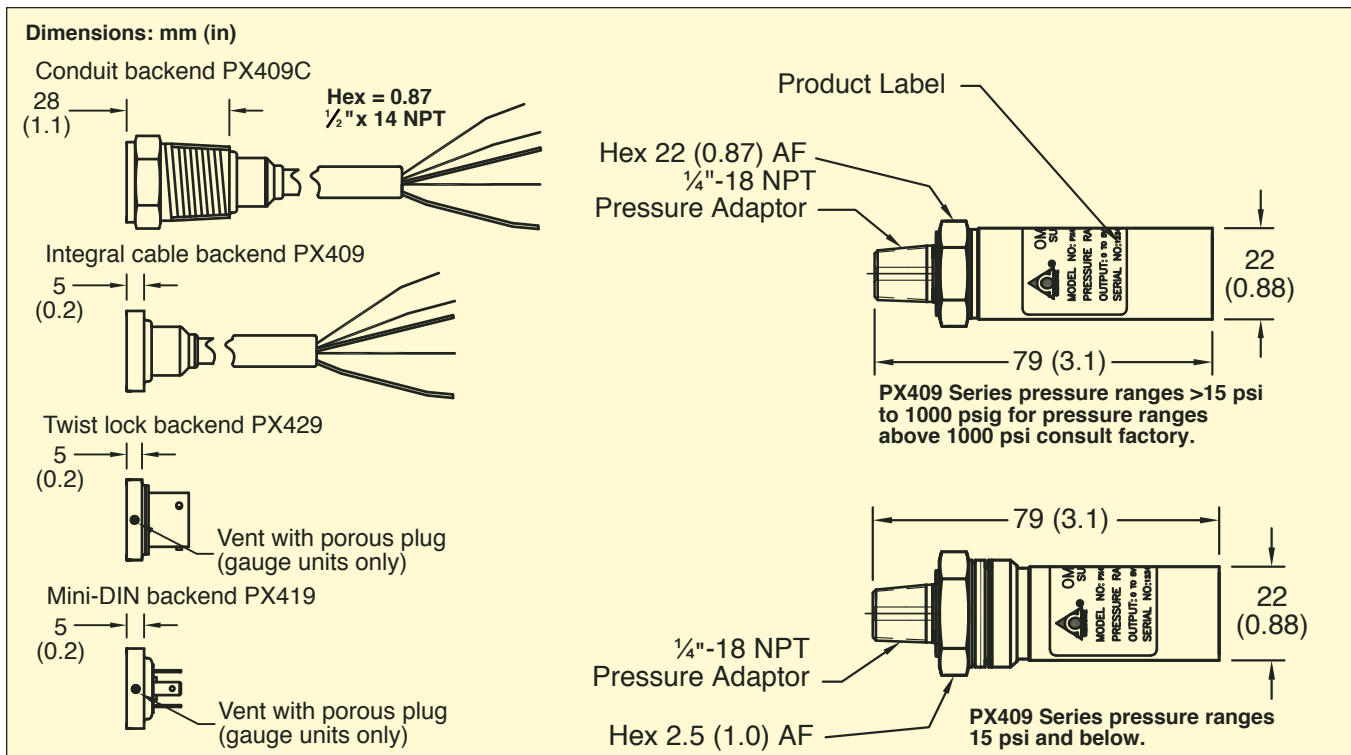
PX419-100GI, £365, shown smaller than actual size.

PX429-015GI, £365, shown smaller than actual size.

PX409 CABLE CONNECTION			
COLOR	mV	5/10V	mA
Black	- EXC	Common	- Supply
White	+ SIG	+ Output	NC
Green	- SIG	NC	NC
Red	+ EXC	+ EXC	+ Supply

PX419 MINI-DIN PIN OUT			
PIN	mV	5/10V	mA
1	+ EXC	+ EXC	+ Supply
2	- EXC	Common	- Supply
3	+ SIG	+ Output	NC
4	- SIG	NC	NC

PX429 TWIST LOCK PINOUT			
PIN	mV	5/10V	mA
A	+ EXC	+ EXC	+ Supply
B	- EXC	Common	- Supply
C	+ SIG	+ Output	NC
D	- SIG	NC	NC
E	NC	NC	NC
F	NC	NC	NC



B

COMPATIBLE METERS AND ACCESSORIES

MOST POPULAR LISTED!

METERS		
MODEL NO.	PRICE	DESCRIPTION
DP41-S	£365	6-digit high accuracy (0.005%) strain meter for use with mV/V output models
DP41-E	365	6-digit high accuracy (0.005%) process meter for use with voltage and current output models
DP41-B	399	6-digit high accuracy (0.005%) universal meter for use with voltage and current output models also accepts thermocouple and RTD inputs
DP25B-S	164	4-digit precision strain meter for use with mV/V output models
DP25B-E	164	4-digit precision process meter for use with voltage and current output models
ACCESSORIES		
CX5302	£10.00	Extra mini-DIN connector for PX419 Series
PT06F10-6S	17.75	Mating twist lock connector for PX429 Series
PS-4G	6.70	Pressure snubber for air/gaseous media
PS-4E	6.70	Pressure snubber for water or light oils
PS-4D	6.70	Pressure snubber for dense liquids (motor oil)



COMPATIBLE METER

DP25B

4-Digit Precision Meter

All Models
£164



- ✓ mV, V, mA, Strain Gauge 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



PATENTED
Covered by U.S. and International patents and pending applications

OMEGA MONOGRAM SERIES

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