All Stainless Steel Transducer/Transmitter Multimedia Compatibility
High-Performance Silicon Technology
Imperial Model

0-1 to 0-10,000 psi 0-0.07 to 0-690 bar 100 mV, 0 to 5 V, and 4 to 20 mA Outputs

PX309 Series



✓ 1, 2 & 5 psi Low **Pressure Ranges!**

✓ All Stainless Steel Construction

Gage, Absolute, Compound Gage or Vacuum Pressure

Rugged Solid State Design

✓ High Stability, Low Drift

✓ 0.25% Static Accuracy

✓ IP65 Protection Class

We provide a complete range of services—from product inception, through design and prototypes, to manufacturing and testing. Our application engineers work closely with our customers to customize, design or create entirely new **products**. Call us—whether you're an OEM, manufacturer, or end user.







OF OMEGA®



All models shown smaller than actual size.

Rugged, General **Purpose Transducer**

Common Specifications for 100 mV, 0 to 5 Vdc, and 4 to 20 mA Outputs

- ✓ 1, 2 & 5 psi Low **Pressure Ranges!**
- All Stainless Steel Construction
- **✓** Gage or Absolute Pressure
- ✓ Rugged Solid State Design
- ✓ High Stability, Low Drift
- ✓ 0.25% Static Accuracy
- **✓** IP 65 Protection Class

OMEGA's PX309 Series models below 100 psi use a highaccuracy silicon sensor protected by an oil-filled stainless steel diaphragm. Units 100 psi and above use silicon strain gages molecularly bonded to the stainless steel diaphragm.

Common Specifications

Ranges: -15 to 50 psig, 0 to 1000

psia, 100 to 10,000 psig

Accuracy (Combined Linearity, Hysteresis and Repeatability):

±0.25% BSL, max

Minimum Resistance Between Transducer Body and Any Wire:

1M Ω @ 25 Vdc

Calibration: In vertical direction with

fitting down

Pressure Cycles: 10 million, minimum

Pressure Overload: -15 to 50 psig and 0 to 1000 psia: 3 times rated pressure or 20 psi whichever is greater, 100 to 10,000 psig: 2 times rated pressure

Burst Pressure: -15 to 50 psig and 0 to 1000 psia: 4 times rated pressure or 25 psi whichever is greater, 100 to 10,000 psig: 5 times rated pressure

Long Term Stability (1 Year): ±0.25% of FS, typical

Operating Temperature: -40 to 85°C

(-40 to 185°F)

Pressure Port: 1/4-18 MNPT

MEGA®

Pressure Port Material: -15 to 50 psig and 0 to 1000 psia: 316 SS, 100 to 10,000 psig: 17-4 PH SS Bandwidth: DC to 1 kHz (typical)

CE: Compliant

Shock: 50 g, 11 ms half-sine

Vibration: ±20 g

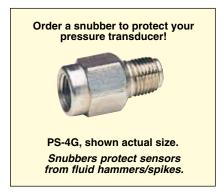
Response Time: <1 millisecond

Weight:

PX309: 154 g (5.4 oz),

PX319/329/359: 100 g (3.5 oz)

IP Rating: IP65 **RoHS:** Compliant



| mV Output Wiring | | | | | |
|------------------|-------|------------------|----------------|--|--|
| Wiring | Cable | M12 and mini DIN | Twist- Lock | | |
| Excitation (+) | Red | Pin 1 | Pin A | | |
| Output (+) | White | Pin 3 | Pin C | | |
| Output (-) | Green | Pin 4 | Pin D | | |
| Excitation (-) | Black | Pin 2 | Pin B | | |
| Spare | _ | _ | Pin E | | |
| Vent | _ | _ | Pin F | | |

| 5 Vdc Output Wiring | | | | | |
|---------------------|-------|------------------|----------------|--|--|
| Wiring | Cable | M12 and mini DIN | Twist- Lock | | |
| Excitation (+) | Red | Pin 1 | Pin A | | |
| Excitation (-) | Black | Pin 2 | Pin B | | |
| Output (+) | White | Pin 3 | Pin C | | |
| N/C† | _ | Pin 4 | Pin D | | |
| Spare | _ | _ | Pin E | | |
| Vent | _ | _ | Pin F | | |

| mA Output Wiring | | | | | |
|------------------|-------|------------------|----------------|--|--|
| Wiring | Cable | M12 and mini DIN | Twist- Lock | | |
| Supply (+) | Red | Pin 1 | Pin A | | |
| Supply (-) | Black | Pin 2 | Pin B | | |
| N/C† | _ | Pin 3 | Pin C | | |
| N/C [†] | _ | Pin 4 | Pin D | | |
| Spare | _ | _ | Pin E | | |
| Vent | _ | _ | Pin F | | |

[†] N/C: Do not connect any wires to this pin.

