OMEGA's PX409 Series high accuracy uni-directional vacuum range (negative gage pressure) models have all stainless steel wetted parts and welded construction and premium temperature compensation which makes them suitable for use in tough industrial environments. Vacuum models measure negative gage pressure with increasing output for increasing negative pressure. Ranges are from -10 inH₂O to -15 psi with uni-directional outputs of 10 mV/V, 0 to 5 Vdc and 4 to 20 mA (ambient set at 4 mA).

**Specifications**

- **Output:**
  - Millivolt: 0 to 10 mV/V for vacuum
  - Amplified Voltage: 0 to 5 Vdc for vacuum
  - Current Loop: 4 to 20 mA

- **Power Requirements:**
  - Millivolt: 5 to 10 Vdc (2 mA @ 10 Vdc)
  - Amplified Voltage: 10 to 30 Vdc @ 10 mA
  - Current Loop: 9 to 30 Vdc [max loop res = [(Vs-9) x 50] [9 to 20 Vdc above 105°C (229°F)]

- **CE Compliant:** Meets industrial emission and immunity standard EN61326

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

- **Zero Balance:** ±0.5% FS typical

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

- **Operating Temperature Range:**
  - -45 to 121°C (-49 to 250°F)
  - -45 to 115°C (-49 to 240°F) [for voltage or current outputs]

- **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:** @ 0 psig Over Compensated Range:
  - Ranges >5 psi: ±0.5% span
  - Ranges ≤5 psi: ±1.0% span

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

- **Long Term Stability:**
  - 2.5 psi and Higher: 4 times full scale (Negative direction 4 times or 1 atmosphere whichever is greater)

- **Burst Pressure:**
  - 10 inH₂O to 15 psi: 1000 psi
  - 1 psi: 6 times full scale

- **Electrical Termination:**
  - PX409: Integral 2 m (6') cable
  - PX419: mini DIN
  - PX429: Twist-lock
  - PX459: M12 4-pins

- **Mating Connectors:**
  - PX419: CX5302 (included)
  - PX429: PT06F10-6S (sold separately)

- **Environmental Protection:**
  - PX409: IP67
  - PX419, PX429 and PX459: IP65

- **Wetted Parts:** 316 SS

- **Pressure Port:** ¼-18 NPT male

- **Calibration:** Comes with 5-point calibration certificate

- **Weight:** 115 to 200 g (4 to 7 oz) depending upon configuration
HIGH ACCURACY TRANSDUCERS
WITH VACUUM PRESSURE RANGES

Custom Models Available!

ACCESSORIES
MODEL NO. DESCRIPTION
M12C-PVC-4-S-F-5 PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PX459
M12C-PVC-4-R-F-5 PVC cable, right angled 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PX459

Comes complete with 5-point NIST traceable calibration, calibrated with electrical connection up.

* To order cable version with \% NPT conduit fitting, specify model PX409C, no extra cost.
** To order with 0 to 10 Vdc output change “5V” to “10V” in model number, no extra cost.

Metric threads and ranges also available.

Ordering Examples: PX409-015VV, cable termination, 0 to -15 psig vacuum range, 10 mV/V output.
PX459-001V5V, M12 termination, 0 to -1 psi vacuum range, 0 to 5 Vdc output.