

USB OUTPUT PRESSURE TRANSDUCER

CONNECT DIRECTLY TO YOUR COMPUTER

Gage and Absolute Pressures
10 inH₂O to 5000 psi (25 mb to 345 bar)
Vacuum and Compound Ranges
10 inH₂O to 15 psi
Barometric Ranges

PX409 USB Series



Standard

- ✓ Micro-Machined Silicon Sensor
- ✓ 316L SS Wetted Parts
- ✓ High $\pm 0.08\%$ Accuracy, Typical (0.14% Maximum)
- ✓ Fast Delivery! Stock to 1-Week on Most Models
- ✓ Excellent Long Term Stability
- ✓ USB 2.0 and Below Compatible
- ✓ Standard USB Connector Termination
- ✓ Shock and Vibration Rated
- ✓ Ruggedized with Secondary Containment

The PX409 USB Series connects directly to your computer. Free software makes data logging and charting your readings a simple task. Also included are drivers for popular laboratory programs plus some web applications. The micro-machined silicon design are ideal for pressure or level applications in laboratory, test platforms, or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micro-machined silicon sensor provides a very stable transducer with exceptional high accuracy of $\pm 0.08\%$ typical and a broad compensated range of -29 to 85°C (-20 to 185°F). The modular construction allows for fast delivery of most configurations and fittings. Delivery is typically stock to 1 week!

SPECIFICATIONS

Accuracy: 0.08% BSL typical (linearity, hysteresis and repeatability combined) (0.14% BSL maximum)

Temperature Compensation (Over Compensated Range):

Span: Range > 5 psi: $\pm 0.5\%$

Range ≤ 5 psi: $\pm 1.0\%$

Zero: Range > 5 psi: $\pm 0.5\%$

Range ≤ 5 psi: $\pm 1.0\%$

Minimum Isolation Between Case and, Output Terminations:
100 M Ω @ 50 Vdc

Pressure Cycles: 1 million, minimum

Long Term Stability (1-Year): $\pm 0.1\%$ FS typical

A to D Conversion: 14-bit

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

PX409-015VUSB
shown actual size.



Cable style.

2 m (6') integral
USB cable connects
directly to your PC.

FREE OMEGA® USBH Downloadable Software!

OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance.

Free OMEGA PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger.

Also included are .NET APIs and a set for command-line access. Visit <ftp://ftp.omega.com/public/DASGroup/products/USBH/> to download your free copy.*

*Includes software to run TRH Central compatible devices.

Bandwidth: DC to 3 Hz typical

CE Compliant: Meets industrial emissions and immunity EN61326

Environmental Protection: IP65

Secondary Containment Vacuum and Pressure:

10 inH₂O to 5 psi: to 1000 psi

15 to 1000 psi: to 3000 psi

1500 to 5000 psi: to 15,000 psi

Secondary Containment Absolute Pressure:

5 to 1000 psi: to 6000 psi

1500 to 5000 psi: to 15,000 psi

Wetted Parts: 316L SS

Weight: 200 g (7 oz)

Overpressure Gage Pressure:

10 inH₂O: 10 times span

1 psi: 6 times span

2.5 psi to 3500 psi: 4 times span

5000 psi: 15,000 psi maximum

Overpressure Absolute Pressure:

5 psia: 6 times span

15 psia to 3500 psia: 4 times span

5000 psia: 15000 psi maximum

Operating Temperature Range: -40 to 85°C (-40 to 185°F)

Compensated Temperature:

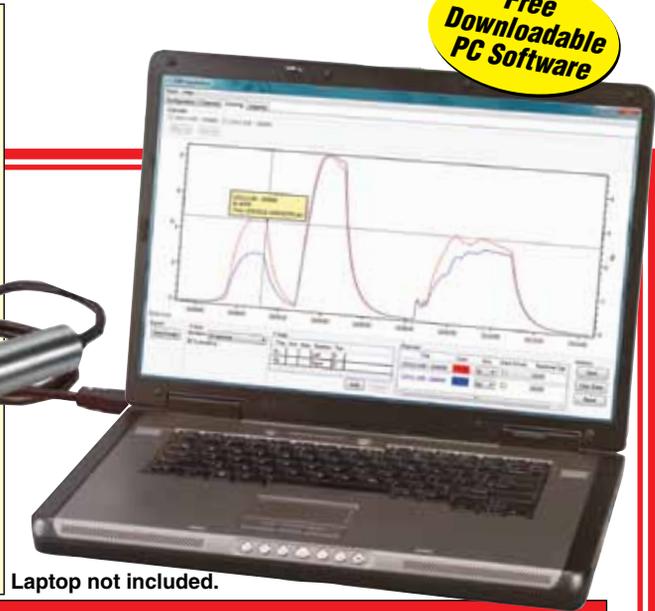
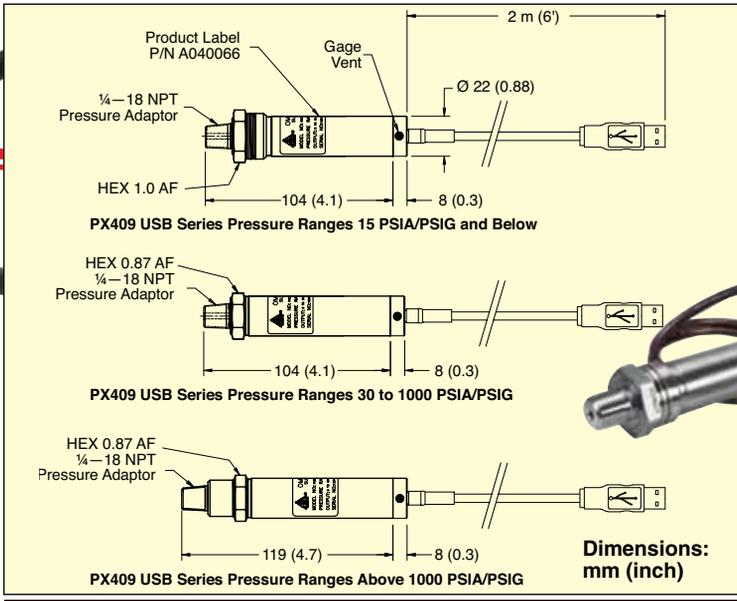
Ranges >5 psi: -29 to 85°C (-20 to 185°F)

Ranges ≤ 5 psi: -17 to 85°C (0 to 185°F)

Metric threads and
ranges available.

USB OUTPUT PRESSURE TRANSDUCER

Free Downloadable PC Software



USB OUTPUT PRESSURE TRANSDUCERS B

To Order

RANGE/RESOLUTION		GAGE PRESSURE MODEL NO.	ABSOLUTE PRESSURE MODEL NO.
psi	bar		
GAGE PRESSURE			
0 to 10.00 inH ₂ O	0 to 25.00 mb	PX409-10WGUSB	—
0 to 1.000	0 to 69.00 mb	PX409-001GUSB	—
0 to 2.500	0 to 172.0 mb	PX409-2.5GUSB	—
0 to 5.000	0 to 345.0 mb	PX409-005GUSB	PX409-005AUSB
0 to 15.00	0 to 1.000	PX409-015GUSB	PX409-015AUSB
0 to 30.00	0 to 2.100	PX409-030GUSB	PX409-030AUSB
0 to 50.00	0 to 3.400	PX409-050GUSB	PX409-050AUSB
0 to 100.0	0 to 6.900	PX409-100GUSB	PX409-100AUSB
0 to 150.0	0 to 10.30	PX409-150GUSB	PX409-150AUSB
0 to 250.0	0 to 17.20	PX409-250GUSB	PX409-250AUSB
0 to 500.0	0 to 34.50	PX409-500GUSB	PX409-500AUSB
0 to 750.0	0 to 51.70	PX409-750GUSB	PX409-750AUSB
0 to 1000	0 to 69.00	PX409-1.0KGUSB	PX409-1.0KAUSB
0 to 1500	0 to 103.0	PX409-1.5KGUSB	PX409-1.5KAUSB
0 to 2500	0 to 172.0	PX409-2.5KGUSB	PX409-2.5KAUSB
0 to 3500	0 to 241.0	PX409-3.5KGUSB	PX409-3.5KAUSB
0 to 5000	0 to 345.0	PX409-5.0KGUSB	PX409-5.0KAUSB
VACUUM RANGES (NEGATIVE GAGE PRESSURE)			
0 to -10.00 inH ₂ O	0 to -25.00 mb	PX409-10WVUSB	—
0 to -1.00 psi	0 to -69.00 mb	PX409-001VUSB	—
0 to -2.500 psi	0 to -172.0 mb	PX409-2.5VUSB	—
0 to -5.00 psi	0 to -345.0 mb	PX409-005VUSB	—
0 to -15.00 psi	0 to -1.000	PX409-015VUSB	—
COMPOUND GAGE RANGES			
± 10.00 inH ₂ O	± 25.00 mb	PX409-10WCGUSB	—
± 1.000 psi	± 69.00 mb	PX409-001CGUSB	—
± 2.500 psi	± 172.0 mb	PX409-2.5CGUSB	—
± 5.000 psi	± 345.0 mb	PX409-005CGUSB	—
± 15.00 psi	± 1.000	PX409-015CGUSB	—
BAROMETRIC RANGES (ABSOLUTE PRESSURE)			
0 to 32.00 inHg	0 to 1100 mb	—	PX409-32BUSB
16.00 to 32.00 inHg	550.0 to 1100 mb	—	PX409-16BUSB
26.00 to 32.00 inHg	880.0 to 1100 mb	—	PX409-26BUSB

Comes complete with 5-point NIST traceable calibration certificate, and free downloadable PC software, with charting and graphic software plus drivers.

Ordering Examples: PX409-100GUSB, 2 m (6') cable with USB termination, 100 psig range, USB output.
 PX409-16BUSB, 2 m (6') cable with USB termination, 16 to 32 inHg absolute barometric range, USB output.