## HIGH SPEED USB OUTPUT PRESSURE TRANSDUCER CONNECT DIRECTLY TO YO



**Gage and Absolute Pressures** 10 inH<sub>2</sub>O to 5000 psi (25 mb to 345 bar) Vacuum and Compound Ranges De 10 inH<sub>2</sub>O to 15 psi **Barometric and Differential Pressure Ranges** PX409-USBH Series



Standard

### 1000 Readings/Second

- Micro-Machined Silicon Sensor
- ✓ 316L SS Wetted Parts
- High ±0.08% BSL Accuracy
- Excellent Long Term Stability
- USB 2.0 and Below Compatible
- Standard USB Connector Termination
- Shock and Vibration Rated
- Ruggedized with Secondary Containmediate

The PX409 High Speed USBH Series connects dire to your computer. Free PC software makes data log and charting your readings a simple task. Also incluare .NET and Labview drivers and a command set for command line access. 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 stab transducer with exceptional high accuracy of ±0.08% and a broad compensated range of -29 to 85°C (-20 to 185°F). The modular construction allows for delivery of most configurations and fittings. Delivery typically stock to 1 week!

### SPECIFICATIONS

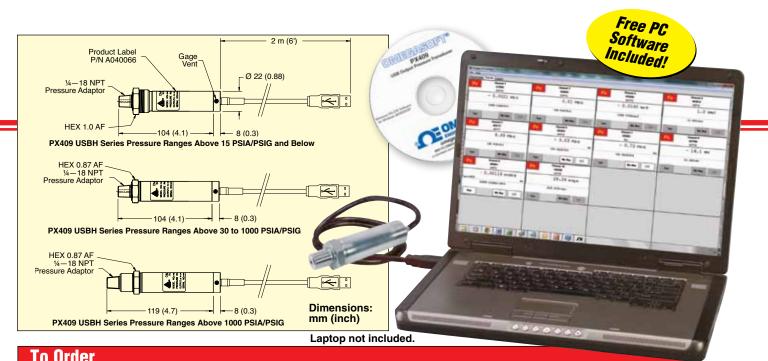
Accuracy: 0.08% BSL (linearity, hysteresis and repeatability combined) **Resolution:** Up to 5.5 significant figures Temperature Compensation (Over Compensated Ran **Span: Range > 5 psi:** ±0.5% **Range** ≤ 5 psi: ±1.0% Zero: Range > 5 psi: ±0.5% **Range**  $\leq$  5 psi:  $\pm 1.0\%$ Minimum Isolation: 100 MΩ @ 50 Vdc case to sensor 2 MΩ @ 50 Vdc case to output terminations Pressure Cycles: 1 million, minimum Long Term Stability (1-Year): ±0.1% full scale typical A to D Conversion: 24-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 **Bandwidth:** DC to 1000 updates per second typical (±3%) Power Consumption: 0.35 W typical

<u>r C</u>	OMPUTE	R T				_	
Fast elivery!		htsGUSBH actual size.		(6') integral	e style.	USB OUTPUT PRESSURE TRANSDUCERS	
			dired	cable connect ctly to your PC	C.	B	
n	FREE SOFTWARE INCLUDED! Each unit includes free	Px	<b>423</b> UNI	nnel 1 1412 1714 090 PSI		_	
<b>nent</b> ectly gging uded	software that converts your PC into a datalogger so readings can	0 - 250 PSI					
for	be saved and later exported to a spread sheet for review and graphing. Also inc and a command s			Min Max	CLR		
ole % fast	CE Compliant: emissions and i Environmental	mmunity EN6	1326	Metric thread ranges avail			
y is	Secondary Con 10 inH <sub>2</sub> O to 5 15 to 1000 ps 1500 to 5000 Secondary Con 5 to 1000 psi	<b>5 psi:</b> to 1000 <b>si:</b> to 3000 ps <b>psi:</b> to 15,00 <b>tainment Abs</b> <b>:</b> to 6000 psi	i psi i 0 psi <b>solute Pressur</b> o				
nge):	1500 to 5000 Wetted Parts: 3 Weight: 200 g ( Overpressure 10 inH <sub>2</sub> O: 10	316L stainless 7 oz) <b>Gage Pressu</b> times span	s steel				
	1 psi: 6 times 2.5 psi to 350 5000 psi: 15, Overpressure	<b>10 psi:</b> 4 time 000 psi maxir	num				
S	5 psia: 6 time 15 psia to 35 5000 psia: 15 Operating Tem	s span <b>00 psia:</b> 4 tin 6000 psi maxi	nes span mum	C (-40 to 185	°F)		
%)	Compensated	Temperature	-		,		

High Speed 1000 Updates/per

Second

1anges >5 psi: -29 to 85 °C (-20 to 185 °F) Ranges ≤5 psi: -17 to 85°C (0 to 185°F)



To Order				
R	ANGE	GAGE PRESSURE	ABSOLUTE PRESSURE	
psi	bar	MODEL NO.	MODEL NO.	
GAGE AND ABSOLU	TE PRESSURE			
0 to 10 inH <sub>2</sub> O	0 to 25 mb	PX409-10WGUSBH	—	
0 to 1	0 to 69 mb	PX409-001GUSBH	_	
0 to 2.5	0 to 172 mb	PX409-2.5GUSBH	_	
0 to 5	0 to 345 mb	PX409-005GUSBH	_	
0 to 15	0 to 1	PX409-015GUSBH	PX409-015AUSBH	
0 to 30	0 to 2.1	PX409-030GUSBH	PX409-030AUSBH	
0 to 50	0 to 3.4	PX409-050GUSBH	PX409-050AUSBH	
0 to 100	0 to 6.9	PX409-100GUSBH	PX409-100AUSBH	
0 to 150	0 to 10.3	PX409-150GUSBH	PX409-150AUSBH	
0 to 250	0 to 17.2	PX409-250GUSBH	PX409-250AUSBH	
0 to 500	0 to 34.5	PX409-500GUSBH	PX409-500AUSBH	
0 to 750	0 to 51.7	PX409-750GUSBH	PX409-750AUSBH	
0 to 1000	0 to 69	PX409-1.0KGUSBH	PX409-1.0KAUSBH	
0 to 1500	0 to 103	PX409-1.5KGUSBH	PX409-1.5KAUSBH	
0 to 2500	0 to 172	PX409-2.5KGUSBH	PX409-2.5KAUSBH	
0 to 3500	0 to 241	PX409-3.5KGUSBH	PX409-3.5KAUSBH	
0 to 5000	0 to 345	PX409-5.0KGUSBH	PX409-5.0KAUSBH	
VACUUM RANGES (N	EGATIVE GAGE PRESSURE)			
0 to -10 inH <sub>2</sub> O	0 to -25 mb	PX409-10WVUSBH	—	
0 to -1 psi	0 to -69 mb	PX409-001VUSBH	—	
0 to -2.5 psi	0 to -172 mb	PX409-2.5VUSBH	_	
0 to -5 psi	0 to -345 mb	PX409-005VUSBH	—	
0 to -15 psi	0 to -1	PX409-015VUSBH	—	
COMPOUND GAGE R				
± 10 inH <sub>2</sub> O	± 25 mb	PX409-10WCGUSBH	—	
± 1 psi	± 69 mb	PX409-001CGUSBH	—	
± 2.5 psi	± 172 mb	PX409-2.5CGUSBH	—	
± 5 psi	± 345 mb	PX409-005CGUSBH	_	
± 15 psi	± 1	PX409-015CGUSBH	—	
BAROMETRIC RANGE	ES (ABSOLUTE PRESSURE)			
0 to 32 inHg	0 to 1100 mb	_	PX409-32BUSBH	
16 to 32 inHg	550 to 1100 mb	—	PX409-16BUSBH	
26 to 32 inHg	880 to 1100 mb	—	PX409-26BUSBH	

Comes complete with 5-point NIST traceable calibration certificate, CD with digital readout and logging software, Labview and .NET drivers, and command set.

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

# HIGH SPEED USB DIFFERENTIAL **PRESSURE TRANSDUCERS**





#### FREE SOFTWARE INCLUDED!

Each unit includes free software that converts your PC into a datalogger so readings can be saved and later exported to a spread sheet for review and graphing. Also included are .NET and Labview drivers, and a command set for command line access.

#### SPECIFICATIONS DIFFERENTIAL MODELS

Ranges: Unidirectional 10 inH<sub>2</sub>O to 1000 psi Line/Static Pressure: 500 psi maximum applied to both sides simultaneously **Proof Pressure (Differential):** 10 inH<sub>2</sub>O range: 10 times range 1 psi range: 6 times range 2.5 to 750 psi ranges: 4 times range 1000 psi range: 3 times range **Hi Side Containment Pressure** (Differential): Ranges 10 inH<sub>2</sub>O to 5 psi: to 1000 psi Ranges 15 to 1000 psi: to 3000 psi Weight: 227 g (8 oz) Line Pressure: 500 psi maximum

Fitting: ¼-18 NPT male



To Order		
RAN	GE	
psi	bar	MODEL NO.
WET/DRY DIFFERENTIAL	PRESSURE MODELS	
0 to 10 inH <sub>2</sub> O	0 to 25.00 mb	PX409-10WDDUUSBH
0 to 1	0 to 69.00 mb	PX409-001DDUUSBH
0 to 2.5	0 to 172.0 mb	PX409-2.5DDUUSBH
0 to 5	0 to 345.0 mb	PX409-005DDUUSBH
0 to 15	0 to 1.000	PX409-015DDUUSBH
0 to 30	0 to 2.100	PX409-030DDUUSBH
0 to 50	0 to 3.400	PX409-050DDUUSBH
0 to 100	0 to 6.900	PX409-100DDUUSBH
0 to 150	0 to 10.30	PX409-150DDUUSBH
0 to 250	0 to 17.20	PX409-250DDUUSBH
0 to 500	0 to 34.50	PX409-500DDUUSBH
0 to 750	0 to 51.70	PX409-750DDUUSBH
0 to 1000	0 to 69.00	PX409-1.0KDDUUSBH
WET/WET DIFFERENTIAL	PRESSURE MODELS	
0 to 10 inH <sub>2</sub> O	0 to 25.00 mb	PX409-10WDWUUSBH
0 to 1	0 to 69.00 mb	PX409-001DWUUSBH
0 to 2.5	0 to 172.0 mb	PX409-2.5DWUUSBH
0 to 5	0 to 345.0 mb	PX409-005DWUUSBH
0 to 15	0 to 1.000	PX409-015DWUUSBH
0 to 30	0 to 2.100	PX409-030DWUUSBH
0 to 50	0 to 3.400	PX409-050DWUUSBH
0 to 100	0 to 6.900	PX409-100DWUUSBH
0 to 150	0 to 10.30	PX409-150DWUUSBH
0 to 250	0 to 17.20	PX409-250DWUUSBH
0 to 500	0 to 34.50	PX409-500DWUUSBH
0 to 750	0 to 51.70	PX409-750DWUUSBH
0 to 1000	0 to 69.00	PX409-1.0KDWUUSBH

and logging software, Labview and .NET drivers, and command set. wiin aigilai readou Ordering Examples: PX409-100DDUUSBH, Wet/Dry 0 to 100 psi differential high speed

USB output transducer. PX409-2.5DWUUSBH, Wet/Wet 0 to 2.5 psi differential high speed USB output transducer.



## Channel

Configure Window: Quickly configure all parameters for all 12 channels on one screen. .NET drivers and Labview drivers and examples are included, as well as a command set for command line access.



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**Channels Window:** Display 12 channels of data simultaneously, each with two configurable user alarms, three data filters, tare, minimum/maximum and choice of sample rates.

#### **Engineering Units:**

bar G	~
ft H20 G	
hPa G	
in H2O G	
in Hg G	
kPa G	
mbar G	
mm Hg G	=
PSI G	
torr G	
Custom	~

Logging Window: Log data for up to 12 channels simultaneously to .csv files, which can be viewed and manipulated with spreadsheet or analysis programs.

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