PRESSURE USB OUTP

HIGH SPEED USB OUTPUT **PRESSURE TRANSDUCER** CONNECT DIRECTLY TO YOUR COMPUTER

Fast Delivery! PXM409-001BGUSBH shown actual size.

High Speed 1000 Updates/per

Second

Gage and Absolute Pressures 25 mb to 345 bar Vacuum and Compound Ranges 25 mb to 1 bar **Barometric and Differential Pressure Ranges**

PXM409-USBH Series



- 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 Containment

The PXM409 High Speed USBH Series connects directly to your computer. Free PC software enables you to chart, log, display, and output data for analysis. Also included are .NET APIs, and a command set for command-line access. The micro-machined silicon design is 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 ±0.08% 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 (linearity, hysteresis and repeatability combined) Resolution: Up to 5.5 significant figures **Temperature Compensation (Over Compensated Range): Span: Range > 350 mb:** ±0.5% **Range** \leq **350 mb:** $\pm 1.0\%$ Zero: Range > 350 mb ±0.5% Range \leq 350 mb $\pm 1.0\%$ 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

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

FREE OMEGA® USBH Downloadable Software!

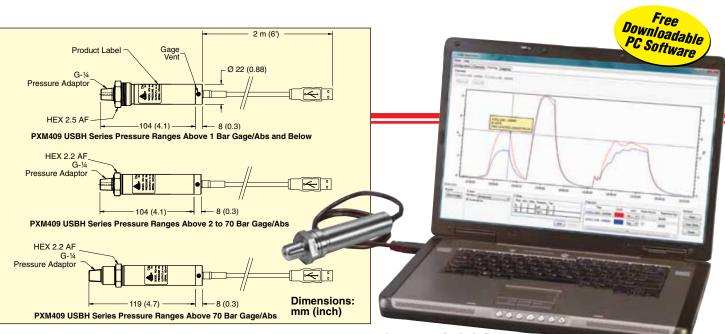
OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance.

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.

CE Compliant: Meets industrial emissions and immunity EN61326 Environmental Protection: IP65 Secondary Containment Gage/Vacuum/Compound Pressure: 25 to 350 mb: to 70 bar 1 to 70 bar: to 200 bar 100 to 350 bar: to 700 bar Absolute/Barometric Pressure: 350 mb to 70 bar: to 400 bar 100 to 350 bar: to 700 bar Zero Balance: Ranges > 170 mB: ±0.5% typ. (1% max) Ranges ≤ 170 mB: ±1% typ. (2% max) **Span Setting:** Ranges > 170 mB: ±0.5% typ. (1% max) Ranges ≤ 170 mB: ±1% typ. (2% max) Overpressure Gage/Vacuum/Compound Pressure: 25 mb: 10 times span 70 mb: 6 times span 170 mb to 100 bar: 4 times span 175 to 350 bar: 500 bar maximum Absolute/Barometric Pressure: 350 mb to 100 bar absolute: 4 times span 175 to 350 bar absolute: 500 bar maximum Wetted Parts: 316L stainless steel Weight: 200 g (7 oz) Operating Temperature Range: -40 to 85°C (-40 to 185°F) **Compensated Temperature:** Ranges > 350 mb: -29 to 85°C (-20 to 185°F) Ranges ≤ 350 mb: -17 to 85°C (0 to 185°F)



Laptop not included.

To Order		
RANGE	GAGE PRESSURE MODEL NO.	ABSOLUTE PRESSURE MODEL NO.
GAGE (Relative) AND AB	SOLUTE PRESSURE	
0 to 25 mbar	PXM409-025HGUSBH	—
0 to 70 mbar	PXM409-070HGUSBH	—
0 to 170 mbar	PXM409-170HGUSBH	—
350 mbar	PXM409-350HGUSBH	PXM409-350HAUSBH
1 bar	PXM409-001BGUSBH	PXM409-001BAUSBH
2 bar	PXM409-002BGUSBH	PXM409-002BAUSBH
3.5 bar	PXM409-3.5BGUSBH	PXM409-3.5BAUSBH
7 bar	PXM409-007BGUSBH	PXM409-007BAUSBH
10 bar	PXM409-010BGUSBH	PXM409-010BAUSBH
17.5 bar	PXM409-17.5BGUSBH	PXM409-17.5BAUSBH
35 bar	PXM409-035BGUSBH	PXM409-035BAUSBH
50 bar	PXM409-050BGUSBH	PXM409-050BAUSBH
70 bar	PXM409-070BGUSBH	PXM409-070BAUSBH
100 bar	PXM409-100BGUSBH	PXM409-100BAUSBH
175 bar	PXM409-175BGUSBH	PXM409-175BAUSBH
245 bar	PXM409-245BGUSBH	PXM409-245BAUSBH
350 bar	PXM409-350BGUSBH	PXM409-350BAUSBH
VACUUM RANGES (Ambie	ent pressure = 0, output increases with vacuum)	
25 mbar	PXM409-025HVUSBH	—
70 mbar	PXM409-070HVUSBH	—
170 mbar	PXM409-170HVUSBH	—
350 mbar	PXM409-350HVUSBH	—
1 bar	PXM409-001BVUSBH	—
COMPOUND GAGE RANG	ES (Output is bi-directional with pressure)	
±25 mb	PXM409-025HCGUSBH	—
±70 mb	PXM409-070HCGUSBH	_
±170 mb	PXM409-170HCGUSBH	_
±350 mb	PXM409-350HCGUSBH	_
±1 bar	PXM409-001BCGUSBH	_
BAROMETRIC RANGES		
0 to 1100 hPa		PXM409-32HBUSBH
550 to 1100 hPa	—	PXM409-16HBUSBH
880 to 1100 hPa	_	PXM409-26HBUSBH

Comes complete with 5-point NIST traceable calibration certificate, cable with USB connector, and free downloadable PC software. Ordering Examples: PXM409-17.5BAUSBH, 17.5 bar absolute pressure range, high speed USB output. PX409-16HBUSBH, 550 to 1100 hPa barometric pressure range, high speed USB output.

HIGH SPEED USB DIFFERENTIAL PRESSURE TRANSDUCERS



SPECIFICATIONS DIFFERENTIAL MODELS

Ranges: Unidirectional 25 mb to 70 bar Line/Static Pressure: 35 bar maximum applied to both sides simultaneously High Side Containment Pressure (Differential)

Wet/Dry and Wet/Wet:

25 to 350 mb: to 70 bar **1 to 70 bar:** to 200 bar

Overpressure (Differential): Wet/Dry and Wet/Wet:

25 mb: 10 times span 70 mb: 6 times span 170 mb to 50 bar: 4 times span 70 bar: to 200 bar Weight: 227 g (8 oz) Line Pressure: 35 bar maximum Fitting: G-¼ male

To Order

WET/DRY DIFFERENTIAL PRESSURE MODEL NO.	WET/WET DIFFERENTIAL PRESSURE MODEL NO.	
DIFFERENTIAL PRESSURE		
PXM409-025HDDUUSBH	PXM409-025HDWUUSBH	
PXM409-070HDDUUSBH	PXM409-070HDWUUSBH	
PXM409-170HDDUUSBH	PXM409-170HDWUUSBH	
PXM409-350HDDUUSBH	PXM409-350HDWUUSBH	
PXM409-001BDDUUSBH	PXM409-001BDWUUSBH	
PXM409-002BDDUUSBH	PXM409-002BDWUUSBH	
PXM409-3.5BDDUUSBH	PXM409-3.5BDWUUSBH	
PXM409-007BDDUUSBH	PXM409-007BDWUUSBH	
PXM409-010BDDUUSBH	PXM409-010BDWUUSBH	
PXM409-17.5BDDUUSBH	PXM409-17.5BDWUUSBH	
PXM409-035BDDUUSBH	PXM409-035BDWUUSBH	
PXM409-050BDDUUSBH	PXM409-050BDWUUSBH	
PXM409-070BDDUUSBH	PXM409-070BDWUUSBH	
	DIFFERENTIAL PRESSURE MODEL NO. PRESSURE PXM409-025HDDUUSBH PXM409-070HDDUUSBH PXM409-170HDDUUSBH PXM409-350HDDUUSBH PXM409-001BDDUUSBH PXM409-002BDDUUSBH PXM409-007BDDUUSBH PXM409-010BDDUUSBH PXM409-17.5BDDUUSBH PXM409-035BDDUUSBH	

Comes complete with 5-point NIST traceable calibration certificate, cable with USB connector, and free downloadable PC software.

Ordering Examples: PXM409-17.5BDDUUSBH, 17.5 bar differential pressure range, unidirectional, Wet/Dry model, high speed USB output.

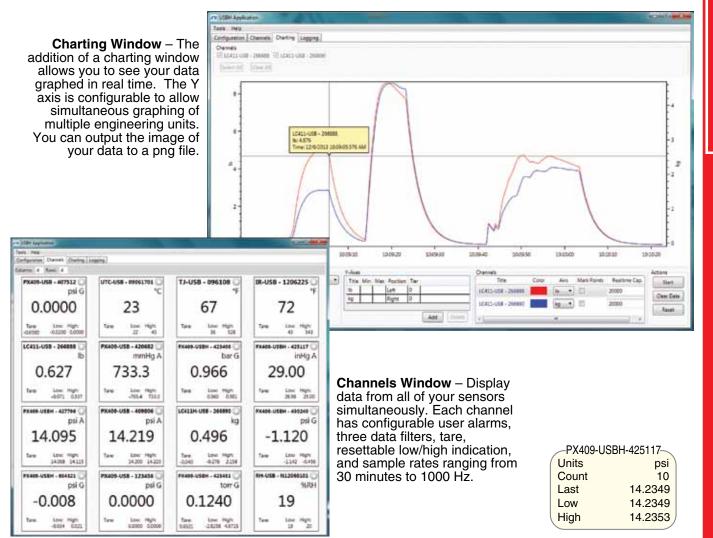
PXM409-025HDWUUSBH, 25 mbar differential pressure range, unidirectional Wet/Wet model, high speed USB output.

OMEGA USBH MAJOR SOFTWARE UPDATE

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Visit ftp://ftp.omega.com/public/DASGroup/products/USBH/ to download your free copy.*

* Includes software to run TRH Central compatible devices.



Logging Window – A new xls filetype output option presents preformatted data for readability. In addition, Live Statistics are displayed, including the sensor information, the start/stop time, the number of samples taken, the current reading, and the High/Low readings. With the logging window, you can capture your data for later analysis.

Support for Omega Pressure, Force, Temperature, and Humidity USB Transducers One software package supports:

PX409-*-USB, PX409-*-USBH, LC411-*-USBH, TJ-USB, IR-USB, RH-USB and UTC-USB transducers.













USB OUTPUT PRESSURE TRANSDUCERS