HIGH SPEED USB OUTPUT PRESSURE TRANSDUCER
CONNECT DIRECTLY TO YOUR COMPUTER

High Speed 1000 Updates/per Second

NEW®

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

Fast Delivery!

PXM409-USBH Series

NIST CE RoHS
Standard

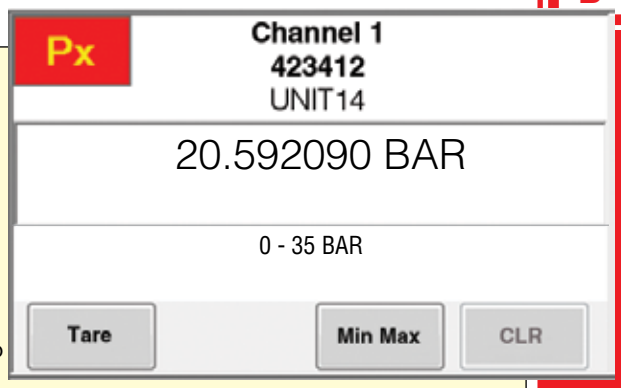
PXM409-001BGUSBH shown actual size.

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

- 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 makes data logging and charting your readings a simple task. Also included are .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 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!

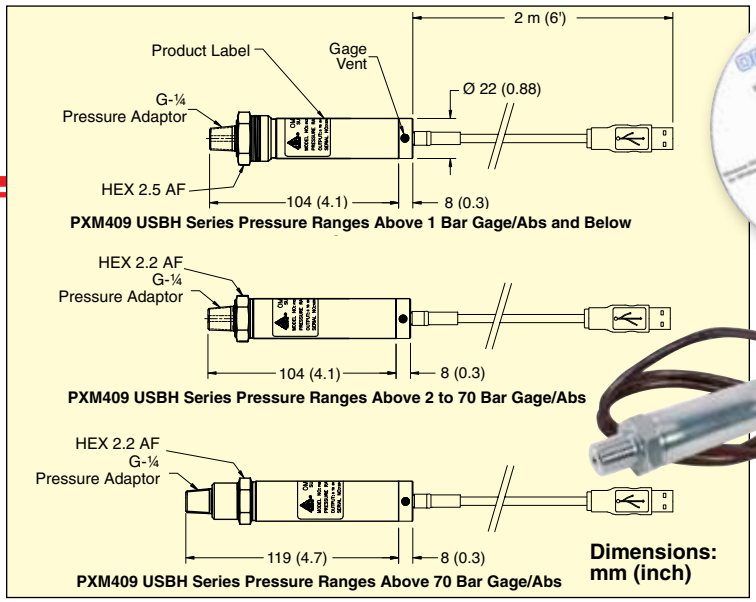
FREE SOFTWARE INCLUDED!
Each unit includes free software that converts your PC into a datalogger so readings can be saved and later exported to a spread sheet for review and graphing. Also included are .NET and Labview drivers, and a command set for command line access.



SPECIFICATIONS

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 ≤ 350 mb: ±1.0%
Zero: Range > 350 mb ±0.5%
Range ≤ 350 mb ±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

CE Compliant: Meets industrial emissions and immunity EN61326
Environmental Protection: IP65
Secondary Containment Vacuum and Pressure:
25 to 350 mb: to 70 bar
1 to 70 bar: to 200 bar
100 to 350 bar: to 1000 bar
Secondary Containment Absolute Pressure:
350 mb to 70 bar: to 400 bar
100 to 350 bar: to 1000 bar
Wetted Parts: 316L stainless steel
Weight: 200 g (7 oz)
Overpressure Gage Pressure:
25 mb: 10 times span
70 mb: 6 times span
170 mb to 250 bar: 4 times span
350 bar: 1000 b maximum
Overpressure Absolute Pressure:
350 mb absolute: 6 times span
1 to 250 bar absolute: 4 times span
350 bar absolute: 1000 bar maximum
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 ABSOLUTE PRESSURE		
0 to 25 mbar	**PXM409-025HGUSBH**	—
0 to 70 mbar	**PXM409-070HGUSBH**	—
0 to 170 mbar	**PXM409-170HGUSBH**	—
350 mbar	**PXM409-350HGUSBH**	—
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 (Ambient pressure = 0, output increases with vacuum)		
25 mbar	**PXM409-25HVUSBH**	—
70 mbar	**PXM409-70HVUSBH**	—
170 mbar	**PXM409-170HVUSBH**	—
350 mbar	**PXM409-350HVUSBH**	—
1 bar	**PXM409-001BVUSBH**	—
COMPOUND GAGE RANGES (Output is bi-directional with pressure)		
±25 mb	**PXM409-25HCGUSBH**	—
±70 mb	**PXM409-70HCGUSBH**	—
±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, CD with digital readout and logging software, Labview and .NET drivers, and command set.

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

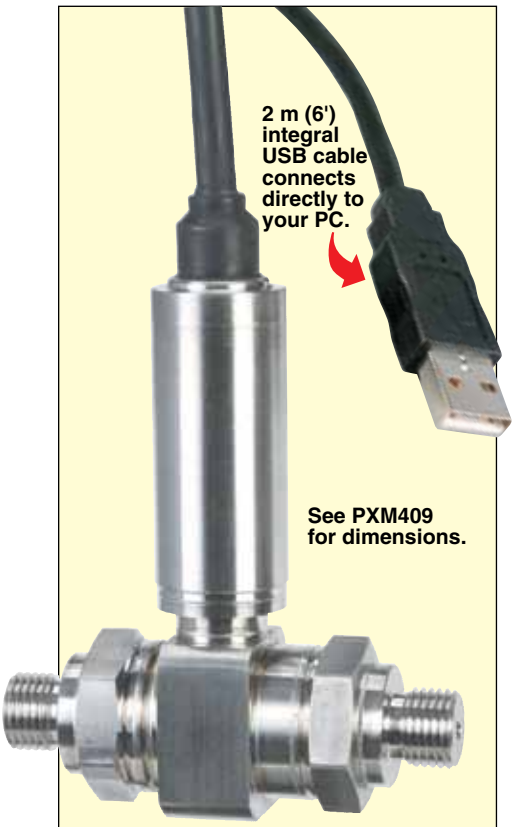
NEW®

SPECIFICATIONS DIFFERENTIAL MODELS

Ranges: Unidirectional 25 mb to 70 bar
Line/Static Pressure: 35 bar maximum applied to both sides simultaneously
Proof Pressure (Differential):
25 mb: 10 times range
70 mb: 6 times range
170 mb to 50 bar ranges: 4 times range
70 bar: 3 times range
Hi Side Containment Pressure (Differential):
Ranges 25 mb to 350 mb: Up to 70 bar
Ranges 1 to 70 bar: Up to 200 bar
Weight: 227 g (8 oz)
Line Pressure: 35 bar maximum
Fitting: G-¼ male

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.



PXM409-001BDWUUSBH 1 bar range, USB output, shown smaller than actual size.

To Order

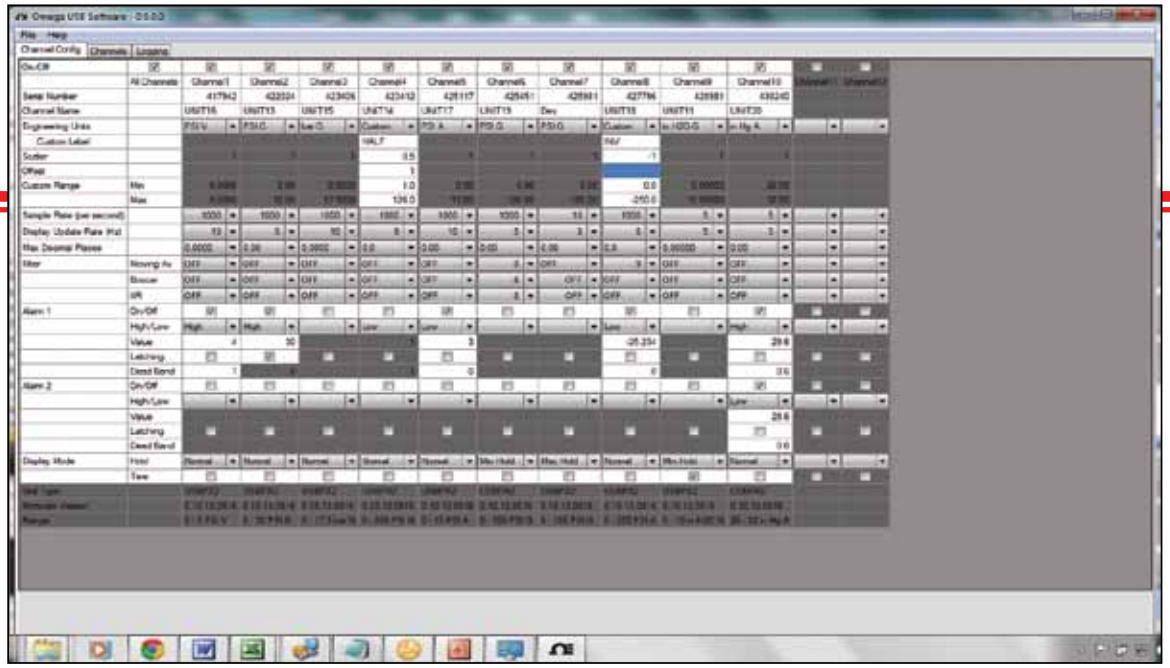
RANGE	WET/DRY DIFFERENTIAL PRESSURE MODEL NO.	WET/WET DIFFERENTIAL PRESSURE MODEL NO.
DIFFERENTIAL PRESSURE		
0 to 25 mbar	PXM409-025HDDUUSBH	PXM409-025HDWUUSBH
0 to 70 mbar	PXM409-070HDDUUSBH	PXM409-070HDWUUSBH
0 to 170 mbar	PXM409-170HDDUUSBH	PXM409-170HDWUUSBH
350 mbar	PXM409-350HDDUUSBH	PXM409-350HDWUUSBH
1 bar	PXM409-001BDDUUSBH	PXM409-001BDWUUSBH
2 bar	PXM409-002BDDUUSBH	PXM409-002BDWUUSBH
3.5 bar	PXM409-3.5BDDUUSBH	PXM409-3.5BDWUUSBH
7 bar	PXM409-007BDDUUSBH	PXM409-007BDWUUSBH
10 bar	PXM409-010BDDUUSBH	PXM409-010BDWUUSBH
17.5 bar	PXM409-17.5BDDUUSBH	PXM409-17.5BDWUUSBH
35 bar	PXM409-035BDDUUSBH	PXM409-035BDWUUSBH
50 bar	PXM409-050BDDUUSBH	PXM409-050BDWUUSBH
70 bar	PXM409-070BDDUUSBH	PXM409-070BDWUUSBH

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

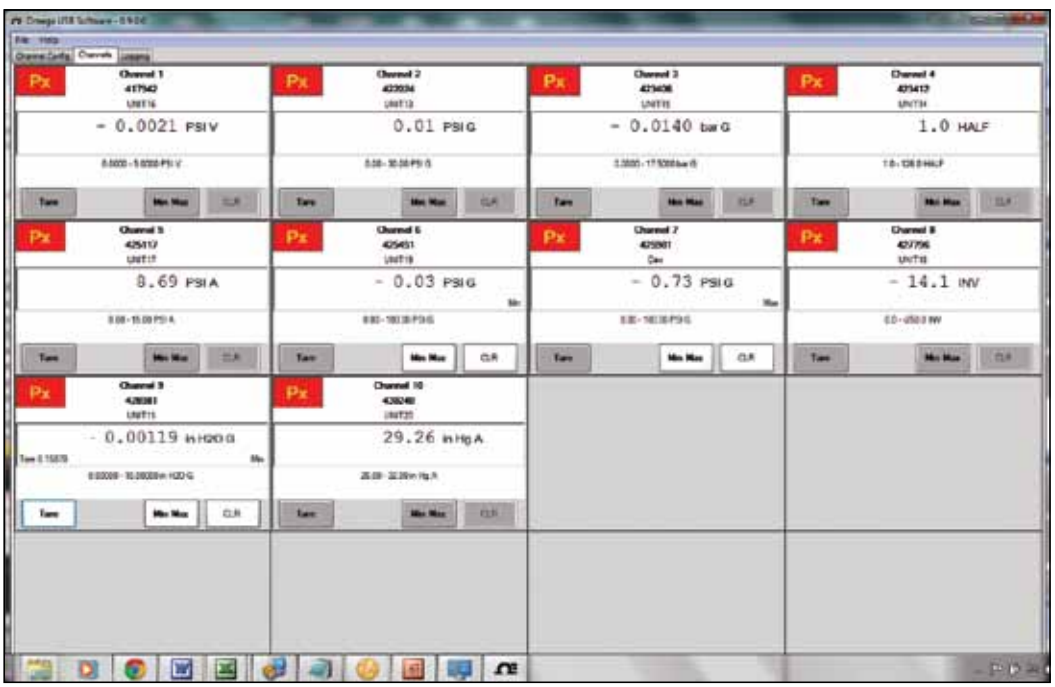
Ordering Examples: PXM409-17.5BDDUUSBH, *17.5 bar differential pressure range, unidirectional, Wet/Dry model, high speed USB output.*

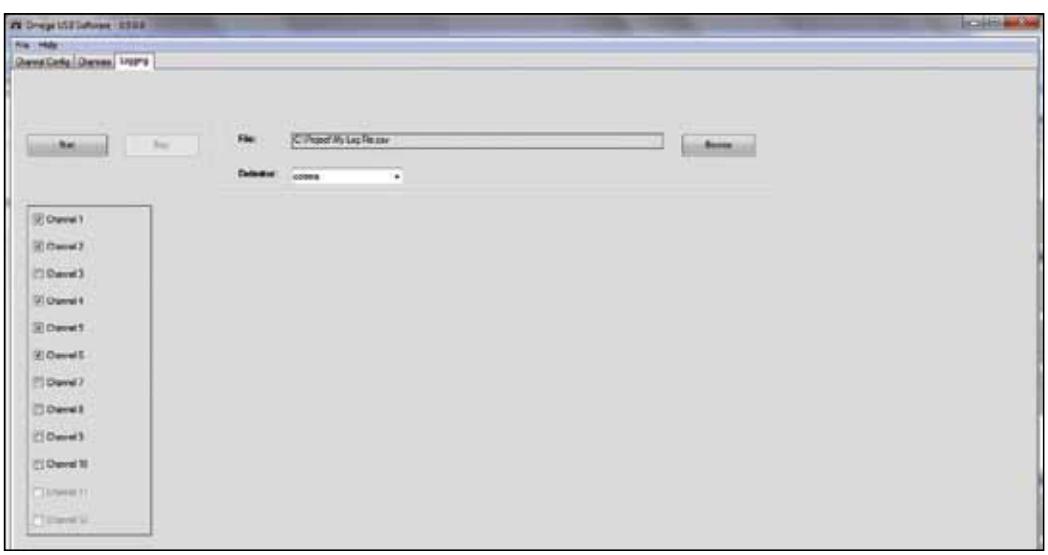
PXM409-025HDWUUSBH, *25 mbar differential pressure range, unidirectional Wet/Wet model, high speed USB output.*

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.



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:

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