MICRO-MACHINED SILICON TRANSDUCERS
WET/DRY DIFFERENTIAL PRESSURE MODELS

mV/V, 0 to 5 or 0 to 10 Vdc, or 4 to 20 mA Outputs
Uni-Directional Ranges
0-25 mbar to 0-70 bar

Metric Series

PXM409 Differential Series

- 5-Point NIST Traceable Calibration
- Precision Micro-Machined Silicon Core
- High Stability, Low Drift
- Welded Stainless Steel Construction
- 316L SS Wetted Parts on Wet Side—Clean Dry Gases in Dry Side
- Digital Dynamic Thermal Compensation Across Temperature and Pressure Range
- Premium Temperature Performance
- Broad Compensated Temperature Range
- Durable, 1 Million Cycle Life
- Ruggedized with Secondary Containment
- Customized Specifications Available

These rugged stainless steel transducers are ideal for industrial, automotive, or aerospace applications where only one side of the transducer is exposed to wet media. These wet/dry transducers deliver the great performance characteristics of the Micro-Machined Silicon Series Transducers at a lower price than the wet/wet models. They can be used in test benches, filter monitoring, air flow, factory or pneumatic air, pitot tubes, air speed and other industrial or aerospace applications requiring a very rugged wet/dry transducer. The solid state silicon core will provide long, reliable service life with excellent long term stability. To obtain their high accuracy and stability, the PXM409 Series use state of the art digital mapping of the temperature, pressure and output performance of the silicon sensor in conjunction with a custom ASIC to provide dynamic thermal compensation across the temperature and pressure parameters.

COMMON SPECIFICATIONS

Accuracy: 0.08% BSL linearity, hysteresis and repeatability combined

Minimum Resistance Between Transducer Body and Any Wire: 100 MΩ

Operating Temperature:
mV/V and 5 to 10 Vdc Output: -45 to 121°C (-49 to 250°F)
mA Output: -45 to 115°C (-49 to 239°F)

Compensated Temperature Range:
25 to 350 mb: -17 to 85°C (1 to 185°F)
1 to 70 bar: -29 to 85°C (-20 to 185°F)

Thermal Accuracy:	**Zero**	**Span**
% Span Shift over compensated temperature range		
25 to 350 mb:	±1.00%	±1.00%
1 to 70 bar:	±0.50%	±0.50%

Pressure Cycles: 1 million minimum

Long Term Stability (1-Year): ±0.1% full scale typical

Electrical Termination Styles

PXM409, 2 m (6') cable.

PXM459, M12 connector

PXM419, mini DIN.

MICRO-MACHINED SILICON TRANSDUCERS
WET/DRY DIFFERENTIAL PRESSURE MODELS

Bandwidth: DC to 1 kHz typical

Response Time: <1 ms

CE Compliant: Meets EN61326-1: 2006 for industrial locations

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

Media Compatibility:
- **High Side:** All fluids and gases compatible with 316L SS
- **Low Side:** Clean, dry, non-ionic gases

Line/Static Pressure: 35 bar maximum applied to both sides simultaneously

Proof Pressure (Differential):
- 25 mb range = 10 times range
- 70 mb range = 6 times range
- 170 mb to 50 bar ranges = 4 times range
- 70 bar range = 3 times range

Hi Side Containment Pressure (Differential):
- **Ranges 25 mb to 350 mb:** to 70 bar
- **Ranges 1 to 70 bar:** to 200 bar

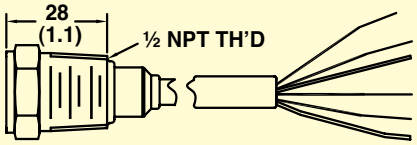
Pressure Ports: G¼ male

Electrical Terminations:
- **PX409:** 2 m (6') cable
- **PX409C:** 2 m (6') cable with ½ NPT conduit thread
- **PX419:** mini DIN (mating connector included)
- **PX459:** M12 connector

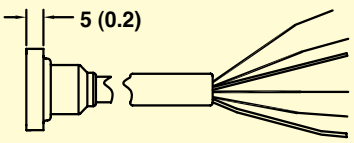
Weight: 200 g (7 oz) maximum

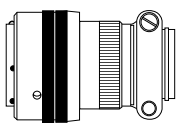
Dimensions: mm (inch)

Conduit backend PXM409C



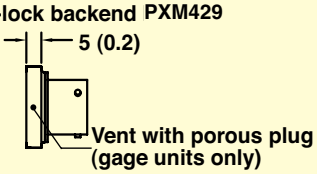
Integral cable backend PXM409



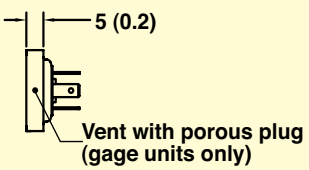


Mating Connector PT06F10-6S

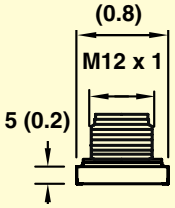
Twist-lock backend PXM429



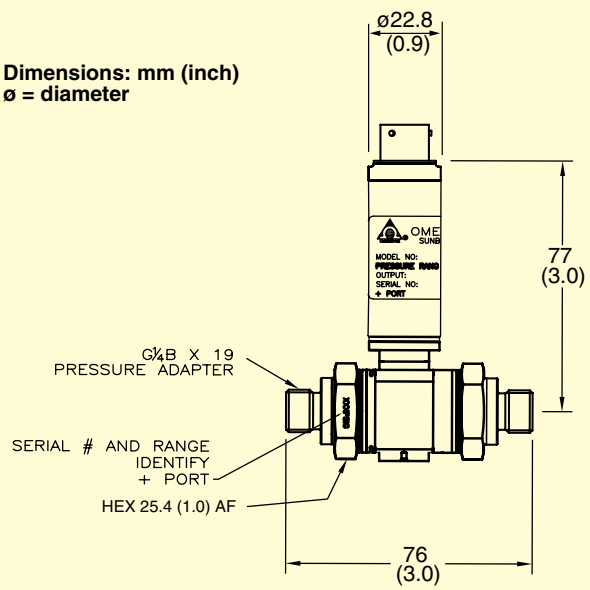
mini DIN backend PXM419



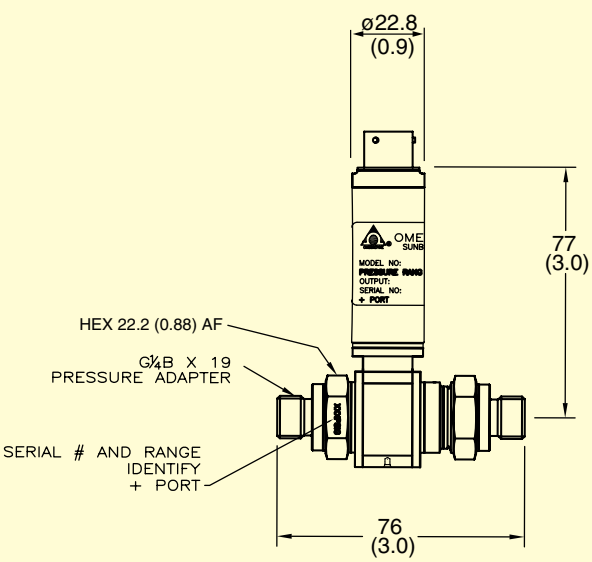
M12 connector backend PXM459
Ø 20.2 (0.8)



Dimensions: mm (inch)
ø = diameter



1 BAR AND BELOW



2 BAR AND ABOVE

WET/DRY DIFFERENTIAL PRESSURE MODELS
UNI-DIRECTIONAL RANGES WITH mV/V OUTPUTS

UNI-DIRECTIONAL mV/V SPECIFICATIONS

Output: 10 mV/V ratiometric
Supply Voltage: 5 to 10 Vdc
Current Draw: 5 mA @ 10 Vdc
Input Impedance: 1000 to 5000 Ω
Output Impedance: 5000 Ω ±10% typical
Zero Balance:
Ranges ≤170 mb: ±1% typical (2% maximum)
Ranges > 170 mb: ±0.5% typical (1% maximum)
Span Setting:
Ranges ≤ 170 mb: ±1% typical (2% maximum)
Ranges > 170 mb: ±0.5% typical (1% maximum)

PXM409-002BDDUV, 2 bar range, 10 mV/V output, shown smaller than actual size.

CABLE TERMINATION*

To Order

RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM409-025HDDUV**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM409-070HDDUV**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM409-170HDDUV**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM409-350HDDUV**	350 mbar w/d Diff Pressure
1 bar	**PXM409-001BDDUV**	1 bar w/d Diff Pressure
2 bar	**PXM409-002BDDUV**	2 bar w/d Diff Pressure
3.5 bar	**PXM409-3.5BDDUV**	3.5 bar w/d Diff Pressure
7 bar	**PXM409-007BDDUV**	7 bar w/d Diff Pressure
10 bar	**PXM409-010BDDUV**	10 bar w/d Diff Pressure
17.5 bar	**PXM409-17.5BDDUV**	17.5 bar w/d Diff Pressure
35 bar	**PXM409-035BDDUV**	35 bar w/d Diff Pressure
50 bar	**PXM409-050BDDUV**	50 bar w/d Diff Pressure
70 bar	**PXM409-070BDDUV**	70 bar w/d Diff Pressure

** To order conduit fitting backend change model number from **"PXM409"** to **"PXM409C"**, no additional cost.*

MINI DIN TERMINATION

RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM419-025HDDUV**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM419-070HDDUV**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM419-170HDDUV**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM419-350HDDUV**	350 mbar w/d Diff Pressure
1 bar	**PXM419-001BDDUV**	1 bar w/d Diff Pressure
2 bar	**PXM419-002BDDUV**	2 bar w/d Diff Pressure
3.5 bar	**PXM419-3.5BDDUV**	3.5 bar w/d Diff Pressure
7 bar	**PXM419-007BDDUV**	7 bar w/d Diff Pressure
10 bar	**PXM419-010BDDUV**	10 bar w/d Diff Pressure
17.5 bar	**PXM419-17.5BDDUV**	17.5 bar w/d Diff Pressure
35 bar	**PXM419-035BDDUV**	35 bar w/d Diff Pressure
50 bar	**PXM419-050BDDUV**	50 bar w/d Diff Pressure
70 bar	**PXM419-070BDDUV**	70 bar w/d Diff Pressure

M12 TERMINATION

RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM459-025HDDUV**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM459-070HDDUV**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM459-170HDDUV**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM459-350HDDUV**	350 mbar w/d Diff Pressure
1 bar	**PXM459-001BDDUV**	1 bar w/d Diff Pressure
2 bar	**PXM459-002BDDUV**	2 bar w/d Diff Pressure
3.5 bar	**PXM459-3.5BDDUV**	3.5 bar w/d Diff Pressure
7 bar	**PXM459-007BDDUV**	7 bar w/d Diff Pressure
10 bar	**PXM459-010BDDUV**	10 bar w/d Diff Pressure
17.5 bar	**PXM459-17.5BDDUV**	17.5 bar w/d Diff Pressure
35 bar	**PXM459-035BDDUV**	35 bar w/d Diff Pressure
50 bar	**PXM459-050BDDUV**	50 bar w/d Diff Pressure
70 bar	**PXM459-070BDDUV**	70 bar w/d Diff Pressure

Comes complete with 5-point NIST traceable calibration certificate.

***Ordering Examples: PXM409C-007BDDUV,** 0 to 7 bar uni-directional wet/dry differential pressure range, 10 mV/V output, 0.08% accuracy, G¼ fittings, 2 m (6') cable with ½ NPT conduit fitting.*

***PXM419-001BDDUV,** 0 to 1 bar uni-directional wet/dry differential pressure range, 10 mV/V output, 0.08% accuracy, G¼ fittings, mini DIN connector.*

***PXM459-025HDDUV,** 0 to 25 mbar uni-directional wet/dry differential pressure range, 10 mV/V output, 0.08% accuracy, G¼ fittings, M12 connector.*

CONNECTIONS—mV/V OUTPUT

PXM459 M12		PXM419 MINI DIN		PXM409 CABLE	
Pin A	+EXC	Pin 1	+EXC	Red	+EXC
Pin B	-EXC	Pin 2	-EXC	Black	-EXC
Pin C	+SIG	Pin 3	+SIG	White	+SIG
Pin D	-SIG	Pin 4	-SIG	Green	-SIG

WET/DRY DIFFERENTIAL PRESSURE MODELS

UNI-DIRECTIONAL RANGES WITH 0 to 5 Vdc OUTPUTS

UNI-DIRECTIONAL VOLTAGE OUTPUT SPECIFICATIONS

Output Voltage/Supply Voltage: 0 to 5 Vdc/ 10 to 30 Vdc; 0 to 10 Vdc/15 to 30 Vdc (change "5V" to "10V" in model number

Current Draw: 10 mA maximum

Maximum Current Output: 2 mA (= 2500 Ω minimum load resistance)

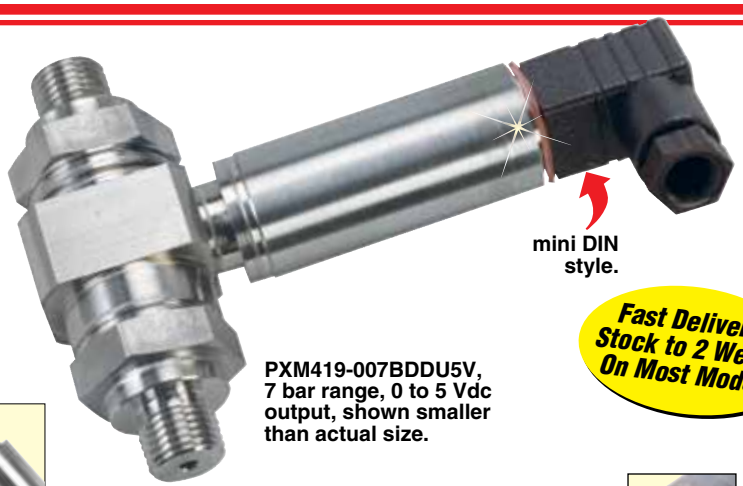
Output Impedance: 100 Ω

Zero Balance:

Ranges > 170 mb: ±0.5% typical (1% maximum)
Ranges ≤ 170 mb: ±1% typical (2% maximum)

Span Setting:

Ranges > 170 mb: ±0.5% typical (1% maximum)
Ranges ≤ 170 mb: ±1% typical (2% maximum)



PXM419-007BDDU5V, 7 bar range, 0 to 5 Vdc output, shown smaller than actual size.

Fast Delivery! Stock to 2 Weeks On Most Models

CABLE TERMINATION*

To Order

RANGE (Metric)	MODEL No. G 1/4 Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM409-025HDDU5V**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM409-070HDDU5V**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM409-170HDDU5V**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM409-350HDDU5V**	350 mbar w/d Diff Pressure
1 bar	**PXM409-001BDDU5V**	1 bar w/d Diff Pressure
2 bar	**PXM409-002BDDU5V**	2 bar w/d Diff Pressure
3.5 bar	**PXM409-3.5BDDU5V**	3.5 bar w/d Diff Pressure
7 bar	**PXM409-007BDDU5V**	7 bar w/d Diff Pressure
10 bar	**PXM409-010BDDU5V**	10 bar w/d Diff Pressure
17.5 bar	**PXM409-17.5BDDU5V**	17.5 bar w/d Diff Pressure
35 bar	**PXM409-035BDDU5V**	35 bar w/d Diff Pressure
50 bar	**PXM409-050BDDU5V**	50 bar w/d Diff Pressure
70 bar	**PXM409-070BDDU5V**	70 bar w/d Diff Pressure

** To order conduit fitting backend change model number from "**PXM409**" to "**PXM409C**", no additional cost.*

MINI DIN TERMINATION

RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM419-025HDDU5V**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM419-070HDDU5V**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM419-170HDDU5V**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM419-350HDDU5V**	350 mbar w/d Diff Pressure
1 bar	**PXM419-001BDDU5V**	1 bar w/d Diff Pressure
2 bar	**PXM419-002BDDU5V**	2 bar w/d Diff Pressure
3.5 bar	**PXM419-3.5BDDU5V**	3.5 bar w/d Diff Pressure
7 bar	**PXM419-007BDDU5V**	7 bar w/d Diff Pressure
10 bar	**PXM419-010BDDU5V**	10 bar w/d Diff Pressure
17.5 bar	**PXM419-17.5BDDU5V**	17.5 bar w/d Diff Pressure
35 bar	**PXM419-035BDDU5V**	35 bar w/d Diff Pressure
50 bar	**PXM419-050BDDU5V**	50 bar w/d Diff Pressure
70 bar	**PXM419-070BDDU5V**	70 bar w/d Diff Pressure

M12 TERMINATION

RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM459-025HDDU5V**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM459-070HDDU5V**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM459-170HDDU5V**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM459-350HDDU5V**	350 mbar w/d Diff Pressure
1 bar	**PXM459-001BDDU5V**	1 bar w/d Diff Pressure
2 bar	**PXM459-002BDDU5V**	2 bar w/d Diff Pressure
3.5 bar	**PXM459-004BDDU5V**	3.5 bar w/d Diff Pressure
7 bar	**PXM459-007BDDU5V**	7 bar w/d Diff Pressure
10 bar	**PXM459-010BDDU5V**	10 bar w/d Diff Pressure
17.5 bar	**PXM459-17.5BDDU5V**	17.5 bar w/d Diff Pressure
35 bar	**PXM459-035BDDU5V**	35 bar w/d Diff Pressure
50 bar	**PXM459-050BDDU5V**	50 bar w/d Diff Pressure
70 bar	**PXM459-070BDDU5V**	70 bar w/d Diff Pressure

Comes complete with 5-point NIST traceable calibration certificate.

***Note:** To order 0 to 10 Vdc output, change **"5V"** to **"10V"** in model number, no additional cost.*

***Ordering Examples: PXM409-007BDDU10V,** 0 to 7 bar uni-directional wet/dry differential pressure range, 0 to 10 Vdc output, 0.08% accuracy, G¼ fitting, 2 m (6') cable.*

***PXM419-001BDDU5V,** 0 to 1 bar uni-directional wet/dry differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, G¼ fitting, mini DIN connector.*

***PXM459-025HDDU5V,** 0 to 25 mbar uni-directional wet/dry differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, G¼ fitting, M12 connector.*

CONNECTIONS—VOLTAGE OUTPUT

PXM459 M12		PXM419 MINI DIN		PXM409 CABLE	
Pin A	+EXC	Pin 1	+EXC	Red	+EXC
Pin B	-COM	Pin 2	-COM	Black	-EXC
Pin C	+SIG	Pin 3	+SIG	White	+SIG
Pin D	No Conn	Pin 4	No Conn	Green	No Conn

WET/DRY DIFFERENTIAL PRESSURE MODELS

UNI-DIRECTIONAL RANGES WITH 4 to 20 mA OUTPUTS

NEW®

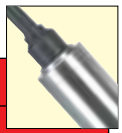
Fast Delivery! Stock to 2 Weeks On Most Models

PXM409-350HDDUI, 0 to 350 mbar range, 4 to 20 mA output, shown smaller than actual size.

UNI-DIRECTIONAL mA SPECIFICATIONS

Output: 4 to 20 mA
Supply Voltage: 9 to 30 Vdc; [9 to 20 Vdc above 105°C (229°F)]
Max Loop Resistance: (Vs-9) x 50 Ω
Zero Balance:
Ranges > 170 mb: ±0.5% typical (1% maximum)
Ranges ≤ 170 mb: ±1% typical (2% maximum)
Span Setting:
Ranges > 170 mb: ±0.5% typical (1% maximum)
Ranges ≤ 170 mb: ±1% typical (2% maximum)

CABLE TERMINATION*



To Order		
RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM409-025HDDUI**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM409-070HDDUI**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM409-170HDDUI**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM409-350HDDUI**	350 mbar w/d Diff Pressure
1 bar	**PXM409-001BDDUI**	1 bar w/d Diff Pressure
2 bar	**PXM409-002BDDUI**	2 bar w/d Diff Pressure
3.5 bar	**PXM409-3.5BDDUI**	3.5 bar w/d Diff Pressure
7 bar	**PXM409-007BDDUI**	7 bar w/d Diff Pressure
10 bar	**PXM409-010BDDUI**	10 bar w/d Diff Pressure
17.5 bar	**PXM409-17.5BDDUI**	17.5 bar w/d Diff Pressure
35 bar	**PXM409-035BDDUI**	35 bar w/d Diff Pressure
50 bar	**PXM409-050BDDUI**	50 bar w/d Diff Pressure
70 bar	**PXM409-070BDDUI**	70 bar w/d Diff Pressure

** To order conduit fitting backend change model number from "**PXM409**" to "**PXM409C**", no additional cost.*

MINI DIN TERMINATION

RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM419-025HDDUI**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM419-070HDDUI**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM419-170HDDUI**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM419-350HDDUI**	350 mbar w/d Diff Pressure
1 bar	**PXM419-001BDDUI**	1 bar w/d Diff Pressure
2 bar	**PXM419-002BDDUI**	2 bar w/d Diff Pressure
3.5 bar	**PXM419-3.5BDDUI**	3.5 bar w/d Diff Pressure
7 bar	**PXM419-007BDDUI**	7 bar w/d Diff Pressure
10 bar	**PXM419-010BDDUI**	10 bar w/d Diff Pressure
17.5 bar	**PXM419-17.5BDDUI**	17.5 bar w/d Diff Pressure
35 bar	**PXM419-035BDDUI**	35 bar w/d Diff Pressure
50 bar	**PXM419-050BDDUI**	50 bar w/d Diff Pressure
70 bar	**PXM419-070BDDUI**	70 bar w/d Diff Pressure

M12 TERMINATION

RANGE (Metric)	MODEL No. G ¼ Male th'd	DESCRIPTION
WET/DRY DIFFERENTIAL PRESSURE		
25 mbar (hPa)	**PXM459-025HDDUI**	25 mbar w/d Diff Pressure
70 mbar (hPa)	**PXM459-070HDDUI**	70 mbar w/d Diff Pressure
170 mbar (hPa)	**PXM459-170HDDUI**	170 mbar w/d Diff Pressure
350 mbar (hPa)	**PXM459-350HDDUI**	350 mbar w/d Diff Pressure
1 bar	**PXM459-001BDDUI**	1 bar w/d Diff Pressure
2 bar	**PXM459-002BDDUI**	2 bar w/d Diff Pressure
3.5 bar	**PXM459-3.5BDDUI**	3.5 bar w/d Diff Pressure
7 bar	**PXM459-007BDDUI**	7 bar w/d Diff Pressure
10 bar	**PXM459-010BDDUI**	10 bar w/d Diff Pressure
17.5 bar	**PXM459-17.5BDDUI**	17.5 bar w/d Diff Pressure
35 bar	**PXM459-035BDDUI**	35 bar w/d Diff Pressure
50 bar	**PXM459-050BDDUI**	50 bar w/d Diff Pressure
70 bar	**PXM459-070BDDUI**	70 bar w/d Diff Pressure

Comes complete with 5-point NIST traceable calibration certificate.

***Ordering Examples: PXM409-007BDDUI,** 0 to 7 bar uni-directional wet/dry differential pressure range, 4 to 20 mA output, 0.08% accuracy, G¼ NPT fitting, 2 m (6') cable with ½ NPT conduit fitting.*

***PXM419-001BDDUI,** 0 to 1 bar psi uni-directional wet/dry differential pressure range, 4 to 20 mA output, 0.08% accuracy, G¼ fitting, mini DIN connector.*

***PXM459-025HDDUI,** 0 to 25 mbar uni-directional wet/dry differential pressure range, 4 to 20 mA output, 0.08% accuracy, G¼ fitting, M12 connector.*

CONNECTIONS—CURRENT OUTPUT

PXM459 M12		PXM419 MINI DIN		PXM409 CABLE	
Pin A	+SUP	Pin 1	+SUP	Red	+SUP
Pin B	-SUP	Pin 2	-SUP	Black	-SUP
Pin C	No Conn	Pin 3	No Conn	White	No Conn
Pin D	No Conn	Pin 4	No Conn	Green	No Conn

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Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ehernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

- **Pressure, Strain and Force**

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

- **Heaters**

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters