

SELECTABLE RANGES, LCD DISPLAY, AND AUTOMATIC ZERO FOR EASY OPERATION



Panel Mount



Duct Mount



Universal Mount (either panel or duct mount)

Dry Media Differential Pressure Transducers

The digital PX Series differential pressure transducers utilize highly accurate, microprocessor profiled sensors. Designed to monitor duct and room pressure in commercial buildings, the PX Series offers exceptional job-site flexibility. PXP and PXD models feature four field-selectable range options. The PXU features seven field-selectable ranges, allowing just one model to cover applications for 0-0.1" to 0-10" W.C. The directional mode jumper is used to configure the transducer in unidirectional or bidirectional mode for room and building static pressure applications. All models feature a pushbutton and digital input terminal to zero the output. The microprocessor is programmed to prevent accidental zero adjustment during normal operation.

Advanced pressure sensing technology

PX Series pressure transducers utilize an advanced ceramic capacitive sensing element that provides a highly stable linear output, reducing offset errors.

APPLICATIONS

- Static pressure in duct or room applications
- Variable air volume system control
- Filter status monitoring

Exceptional accuracy and stability

- Excellent tolerance to overpressure and vibration reduces field failures
- High accuracy digital sensor maintains calibration and reduces callbacks
- High reliability sensor technology for long-term maintenance-free operation

Lowest total installed cost

- Switch-selectable ranges and scales reduce setup time and number of models to stock
- Microprocessor-based design allows for digitally profiled sensor increasing product accuracy and reliability
- Brass barb fittings prevent breakage and accommodate popular tubing sizes

Low-differential room pressure sensor with LCD display

- Ideal for clean rooms, hospitals, fume hoods, computer rooms, and other very low differential pressure applications
- Monitors positive and negative pressure for application versatility
- Flexibility: standard and fast response modes

SPECIFICATIONS

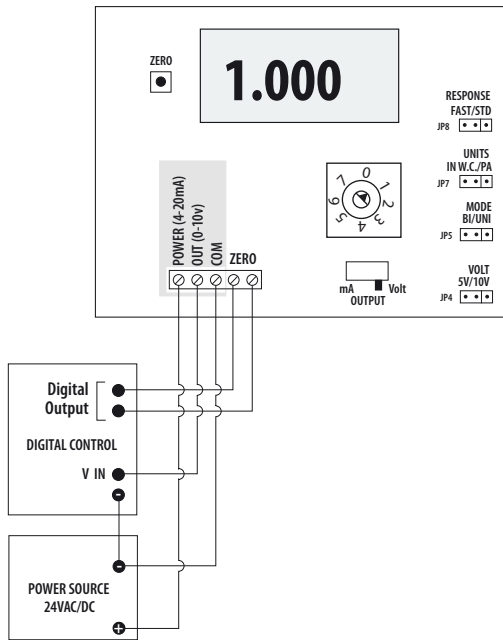
Media Compatibility	Dry air or inert gas
Input Power	12-30VDC, or 24VAC nominal
Output	Field-selectable: 2-wire, loop-powered 4-20mA (DC only, clipped and capped), or 3-wire 0-5V/0-10V
Pressure Ranges:	
PX: 01	Unidirectional: 0.1/0.25/0.5/1.0" W.C. F.S., switch selectable Bidirectional: ±0.1/±0.25/±0.5/±1.0" W.C. F.S., switch selectable
PX: 02	Unidirectional: 25 pa/50 pa/100 pa/250 pa, F.S., switch selectable Bidirectional: ±25 pa/±50 pa/±100 pa/±250 pa, F.S., switch selectable
PXU: 05	Unidirectional: 1.0/2.5/5.0/10" W.C. F.S., switch selectable Bidirectional: ±1.0/±2.5/±5.0/±10" W.C. F.S., switch selectable
Response Time	Standard: T95 in 20 sec, Fast: T95 in 2 sec, switch selectable
Mode	Unidirectional or bidirectional, switch selectable
Display (option)	Signed 3-1/2 digit LCD, indicates pressure, overrange indicator
Proof Pressure	3 psid (20.6kPa)
Burst Pressure	5 psid (34.5kPa)
Accuracy	±1% F.S. of selected range (combined linearity and hysteresis)
Temperature Effect	1" (250Pa) models: 0.05%/°C; 10" (2.5kPa) models: 0.01%/°C (Relative to 25°C) 0° to 50°C (32° to 122°F)
Zero Drift (1-year)	1" (250Pa) models: 2.0% max.; 10" (2.5kPa) models: 0.5% max.
Zero Adjust	Pushbutton auto-zero and digital input (2-pos terminal block)
Operating Environment	0°- 60°C (32° to 140°F); 0 to 90% RH non-condensing
Fittings	Brass barb; 0.24" (6.1mm) o.d.
Physical	UL 94 V-0 Fire Retardant ABS

EMC Conformance: EN 61000-6-3:2001 Class B, EN 61000-6-1:2001, EN 61000-3-2:2000, EN 61000-3-3:2001, EMC Test Methods: CISPR 22:1997 (Amended A1:2000, Class B A2:2002), IEC 61000-4-2:2002, IEC 61000-4-3:2006, IEC 61000-4-4:2004, IEC 61000-4-5:2001, IEC 61000-4-6:2004, IEC 61000-4-8:2001, IEC 61000-4-11:2004. EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper SURGE PROTECTION (EN 61000-6-1:2001 specification requirements).



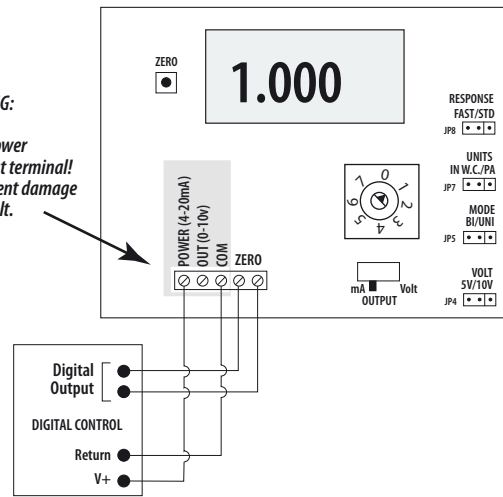
APPLICATION/WIRING DIAGRAMS

3-wire, 0-5V/0-10V

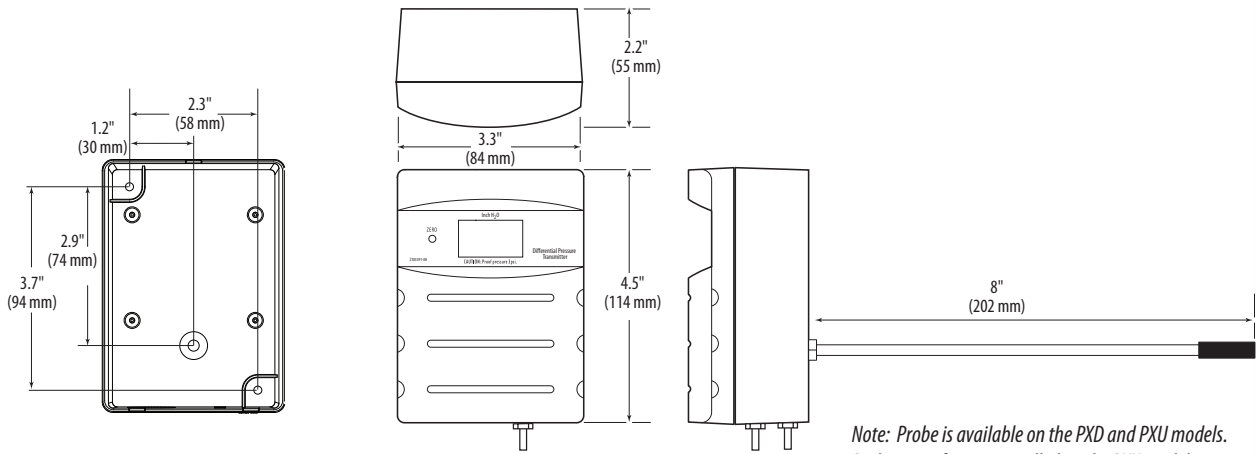


2-wire, 4-20mA

WARNING:
Do not apply power to output terminal! Permanent damage will result.

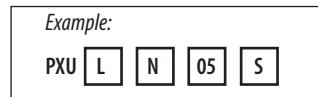
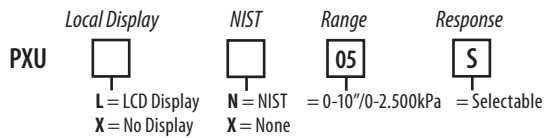
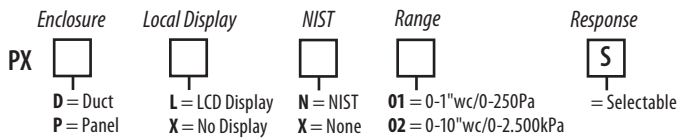


DIMENSIONAL DRAWINGS



Note: Probe is available on the PXD and PXU models. Probe is not factory-installed on the PXU models.

ORDERING INFORMATION



ACCESSORIES

Room and duct static pickup tubes... see page 218.

