INSTALLATION INSTRUCTIONS

¥ *Read instructions thoroughly prior to install*

Applications shown are suggested means of installing sensors, but it is the responsibility of the installer to ensure that the installation is in compliance with all national and local codes and OSHA requirements. Installation should be attempted only by individuals familiar with proper installation techniques and with codes, standards, and proper safety procedures for control installations.

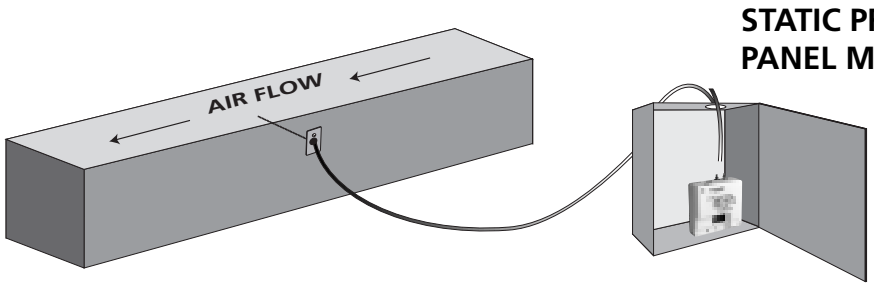
PX SERIES

Differential Pressure Transducer
Dry Media

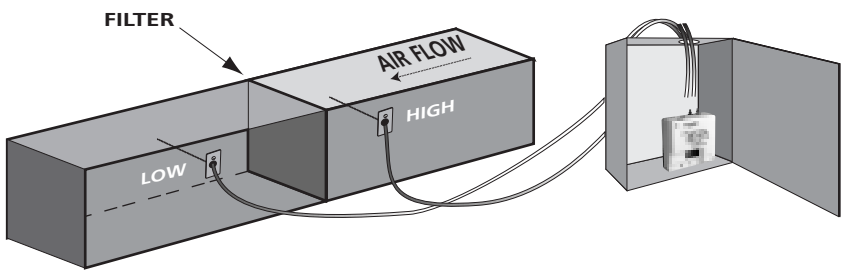
VERIS INDUSTRIES
PORTLAND, OREGON USA
Toll Free in USA 1.800.354.8556
Tel USA 1.503.598.4564 FAX USA 1.503.598.4664
http://www.veris.com email: sales@veris.com

PXP PANEL INSTALLATIONS

STATIC PRESSURE APPLICATION PANEL MOUNTED

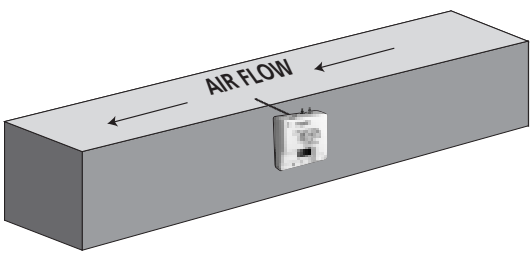


DIFFERENTIAL PRESSURE APPLICATION PANEL MOUNTED

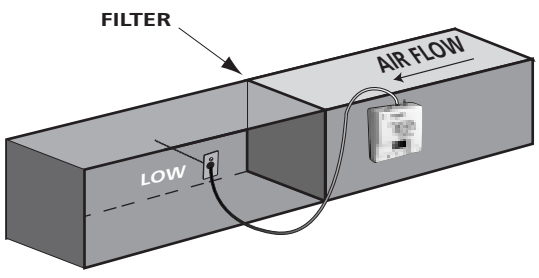


PXD DUCT INSTALLATIONS

STATIC PRESSURE APPLICATION DUCT MOUNTED



DIFFERENTIAL PRESSURE APPLICATION DUCT MOUNTED



#Z101975-0H

WIRING

Connect transmitter to control system and power supply as indicated.

Optional: Connect ZERO terminals to digital output (contact closure) of control system.

CONFIGURATION

Use switch to select voltage (V) or current (mA) mode.

Use jumper JP6 to select 0-10V or 0-5V output span. (Voltage mode only).

Use jumper JP3 to select bidirectional or unidirectional mode.

Select appropriate full-scale range using the slide switch. LCD models will momentarily indicate selected range.

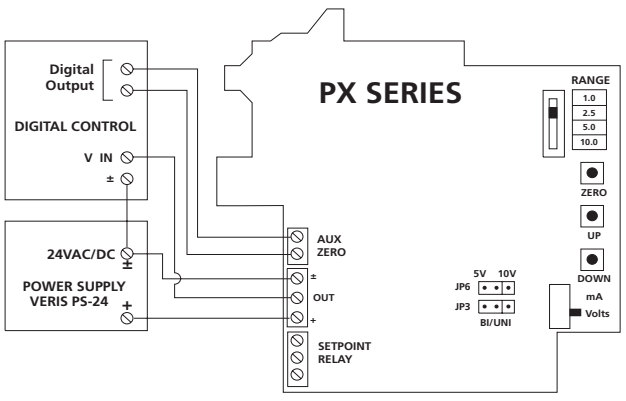
OPERATION

IMPORTANT: *PX Series employ ceramic capacitive sensors and sophisticated temperature compensation circuitry. Sensor achieves best accuracy after initial warm-up period. During the first few minutes of operation, readings at zero pressure and lowest pressure ranges will appear erroneous. Following this initial warm-up period, PX Series will maintain specified accuracy and stability.*

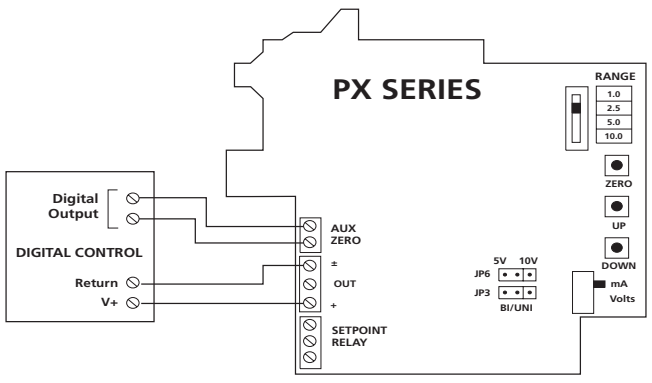
LCD DISPLAY (PXD): Display momentarily indicates range ÒSETÓ when selection is made. Pressure is normally indicated on display. Units are in inches water column (ÒW.C.)

ZERO: Allow unit to warm up for one hour before using the ZERO function. Press and hold the ZERO push-button for 2 seconds or provide contact closure on ÔAUX ZEROÕ terminal to automatically reset output and display to zero pressure. To protect the unit from accidental zero, this feature is enabled only when detected pressure is within 5% of factory calibration.

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



2-wire, 4-20mA Configuration



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

SPECIFICATIONS

Media Compatibility ..... Dry air or inert gas
Input Power ..... 24VAC/DC nominal
Output ..... Field selectable: 2-wire, loop-powered 4-20mA, or 3-wire 0-5V/0-10V
Pressure Ranges: ..... -010: Unidirectional: 0.1/0.25/0.5/1.0Ó W.C. F.S., jumper selectable
Bidirectional: ±0.1/±0.25/±0.5/±1.0Ó W.C. F.S., jumper selectable
..... -100: Unidirectional: 1.0/2.5/5.0/10Ó W.C. F.S>, jumper selectable
Bidirectional: ±1.0/±2.5/±5.0/±10Ó W.C. F.S., jumper selectable
Mode ..... Unidirectional or bidirectional, jumper selectable
Display (option) ..... Signed 3-1/2 digit LCD, indicates pressure in inches H_2O
Proof Pressure ..... 3 psid
Burst Pressure ..... 5 psid
Accuracy* ..... ±1% F.S.
Temperature Effect ..... -010 Model, 0.05%/¼C; -100 Models, 0.01%/¼C (Relative to 25¼C) 0 to 50¼C
Zero Drift (1-year) ..... -010 Model, 2.0% max.; -100 Model, 0.5% max.
Zero Adjust ..... Pushbutton auto-zero and digital input (2-pos terminal block)
Operating Environment ..... 0-60¼C; 10 to 90% RH non-condensing
Fittings ..... Barb brass; 1/8Ó i.d.
Physical ..... High-impact ABS plastic, plenum rated UL94 5VA white
Conformance ..... EMC EN 50081-1, EN 50082-1, EN 61000-4-4, EN 61000-4-5, EN 61000-4-3, ENV 50204, EN 61000-4-6

To conform to EMC standards, shielded cabling is required. Technical information is available from factory upon request and is available on our website: www.veris.com/ce
**Combined linearity and hysteresis.*