PX3 SERIES

Bluetooth[®] Differential Pressure/Air Velocity Transducers



The PX3 transducer can measure either air pressure or velocity with the flip of a switch. The PX3 is available in three installation configurations: duct, panel or universal. Duct and panel models have two pressure and velocity options: 0-1 in. WC / 0-3,000 ft/min or 1-10 in. WC / 3,000-6,000 ft/min with four field-selectable sub-ranges. The universal model comes in one pressure/velocity range: 0-10 in. WC / 0-7,000 ft/min with seven field-selectable sub-ranges for pressure and eight for velocity. All variants are available with and without display. The PX3 has an IP65/ NEMA 4 environmental rating and a 5-year limited warranty.

The Veris Sensors App provides the ability to connect to a device and configure a variety of field-selectable parameters remotely from a smartphone via Bluetooth wireless technology. The app allows users to create and store commonly used parameters that will reduce commissioning time and provide assurance that all parameters are properly configured with no call backs. The app can also create a trend log while connected, providing critical data for troubleshooting purposes. iOS® users can download the app through the iOS App Store on their smart device. Android users can download the app through the Google Play[™] store.

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SPECIFICATIONS

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Media Compatibility	Dry air or inert gas			
Input Power	Three-wire Volt mode: 24 Vac or 12-30 Vdc* Two-wire mA mode: 12-30 Vdc*			
Output Power	Field-selectable: 2-wire, loop-powered 4-20 mA Minimum input voltage for 4 to 20 mA operation: 250Ω loop = 12 Vdc; 500Ω loop = 19 Vdc (DC only, clipped and capped), 24 Vac/dc or 3-wire 0-5V/0-10V Minimum load resistance for Volt operation: 5 k Ω			
PRESSURE RANGES				
01 Pressure Range	Pressure Mode: Unidirectional: $0.1/0.25/0.5/1$ in. WC, switch selectable Bidirectional: $\pm 0.1/\pm 0.25/\pm 0.5/\pm 1$ in. WC, switch selectable Unidirectional: $25/50/100/250$ Pa, switch selectable Bidirectional: $\pm 25/\pm 50/\pm 100/\pm 250$ Pa, switch selectable			
	Velocity Mode:			

500/1,000/2,000/3,000 ft/min 2.5/5/10/15 m/s

Wireless configuration

View and configure all fieldselectable parameters via smartphone. No ladder necessary for duct mount applications.

High accuracy

High accuracy digital sensor with seven selectable pressure and eight velocity sub-ranges, maintains calibration and reduces callbacks

Maintenance free

High reliability sensor technology for long-term, maintenance-free operation

APPLICATIONS

- Duct static pressure
 (Pressure mode)
- Building or room pressure (Pressure mode)

Reduce field failures

Excellent tolerance to overpressure and vibration reduces field failures

Water-resistant housing

IP65/NEMA 4 housing allows for mounting in wash-down locations

Circuit protection

Circuit protection avoids damage due to incorrect input wiring

- Filter status (Pressure mode)
- Air flow measurement
 (Velocity mode)

02 Pressure Range	Pressure Mode: Unidirectional: $1.0/2.5/5/10$ in. WC, switch selectable Bidirectional: $\pm 1.0/\pm 2.5/\pm 5/\pm 10$ in. WC, switch selectable Unidirectional: $250/500/1,000/2,500$ Pa, switch selectable Bidirectional: $\pm 250/\pm 500/\pm 1,000/\pm 2,500$ Pa, switch selectable Velocity Mode: 3,000/4,000/5,000/6,000 ft/min 15/20/25/30 m/s	
05 Pressure Range	Pressure Mode: Unidirectional: $0.1/0.25/0.5/1/2.5/5/10$ in. WC, switch selectable Bidirectional: $\pm 0.1/\pm 0.25/\pm 0.5/\pm 1/\pm 2.5/\pm 5/\pm 10$ in. WC, switch selectable Unidirectional: $25/50/100/250/500/1,000/2,500$ Pa, switch selectable Bidirectional: $\pm 25/\pm 50/\pm 100/\pm 250/\pm 500/\pm 1,000/\pm 2,500$ Pa, switch selectable	
	Velocity Mode: 500/1,000/2,000/3,000/4,000/5,000/6,000/7,000 ft/min 2.5/5/10/15/20/25/30/35 m/s	
SENSOR		
Response Time	Standard: T95 in 20 sec, Fast: T95 in 2 sec, DIP switch selectable	
Mode	Unidirectional or bidirectional, DIP switch selectable	
Display (option)	Pressure mode: Signed 3-1/2 digit LCD, indicates pressure, overrange indicator Velocity mode: Signed 4-1/2 digit LCD, indicates velocity, overrange indicator	
Proof Pressure	3 psid (20,600 Pa)	
Burst Pressure	5 psid (34,500 Pa)	
Pressure Mode Accuracy	$\pm 1\%$ FS (combined linearity and hysteresis)	
Velocity Mode Accuracy	± 90 ft/min (±0.45 m/s) plus 5% of measured value**	



SPECIFICATIONS (CONT.)

Limited

Warranty

in. (mm)

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3.5

AGENCY APPROVALS

EN61326-2-3.

DIMENSIONAL DRAWING

1.6 (42)

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SMART PHONE APP

5 years

* Class 2/II power source.

*** Display will not function below 0 °C (32 °F).

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settings. A great tool for reducing commissioning time.

Temperature Effect	1" (250 Pa) models: 0.05%/°C; 10" (2,500 Pa) models: 0.01%/°C (Relative to 25 °C) 0 to 50 °C (32 to 122 °F)			
Zero Drift (1-year)	1″ (250 Pa) models: 2.0% max.; 10″ (2,500 Pa) models: 0.5% max.			
Zero Adjust	Pushbutton auto-zero and digital input (2-pos terminal block)			
Operating Env.	-20 to 60 °C (-4 to 140 °F)***			
Altitude of Operation	0 to 3,000 m			
Humidity Range	100% RH, non-condensing			
Mounting Location	For indoor or outdoor use (display will not function below 0 °C (32 °F))			
Fittings	Brass barb; 0.24" (6.1 mm) o.d.			
Bluetooth Frequency Range	2.402 to 2.480 GHz (Bluetooth version 4.2, enabled by DIP switch)			
Environmental Rating	IP65, NEMA 4			
Flammability Rating	UL 94 5VA fire retardant ABS, plenum rated			
WARRANTY				

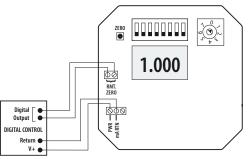
EMC Conformance: EN 61000-6-3 and A1, Class B, EN 61000-6-1, EN61326-1 and

** For measured values between 200 and 7,000 ft/min (1 and 35 m/s).

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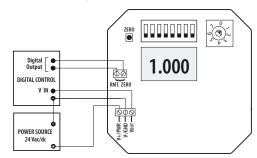
WIRING DIAGRAM

2-wire, 4-20 mA Current Loop Output

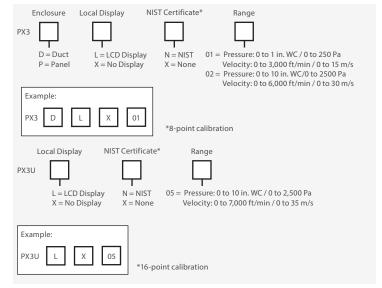


WIRING DIAGRAM

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



ORDERING INFORMATION



ACCESSORIES

VFXP Series Air Velocity Measurement Probe* Velocity Pitot Tubes, 8-5/8", 12-5/8", 18-5/8" (AA18, AA19, AA20)* Static-04 Pick-up - 4" Duct Static Pickup Probe (AA06) Static-08 Pick up - 8" Duct Static Pickup Probe) (AA07) Wall Plate Remote Pickup (AA56)

*For use with the PX3P (panel) and PX3U (universal) models in Velocity mode only. VFXP Series AA18, AA19, AA20





AA06



The Veris Sensors App allows for remote viewing and adjustment of

Custom Config Screen







Trend Log Tab

30 min 60 min 1 day 1 week