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.

Note: This product is not intended for life or safety applications. Do not install this product in hazardous or classified applications.

SPECIFICATIONS

GENERAL

GENTENNE	GENERAL		
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: 250 Ω loop = 12 Vdc; 500 Ω 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: ±0.1/±0.25/±0.5/±1 in. WC, switch selectable Unidirectional: 25/50/100/250 Pa, switch selectable Bidirectional: ±25/±50/±100/±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: ±1.0/±2.5/±5/±10 in. WC, switch selectable Unidirectional: 250/500/1,000/2,500 Pa, switch selectable Bidirectional: ±250/±500/±1,000/±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
CENCOR	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	$\pm 1\%\text{FS}$ (combined linearity and hysteresis)
Velocity Mode Accuracy	\pm 90 ft/min (\pm 0.45 m/s) plus 5% of measured value**
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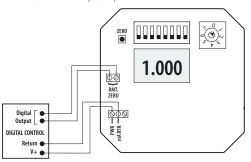


SPECIFICATIONS (CONT.)

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 in. WC (250 Pa) models: 2.5% FS typ.; 10 in. WC (2,500 Pa) models: 0.25% FS typ.
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	

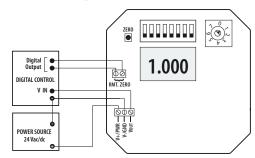
WIRING DIAGRAM

2-wire, 4-20 mA Current Loop Output

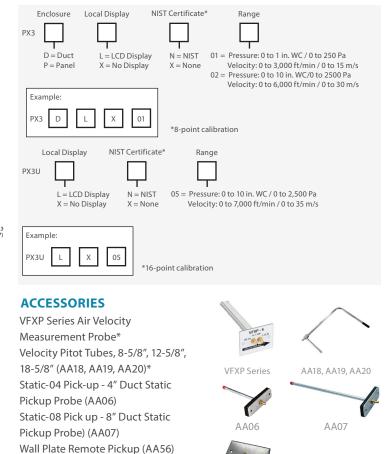


WIRING DIAGRAM

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



ORDERING INFORMATION



*For use with the PX3P (panel) and PX3U (universal) models in Velocity mode only.

Note: The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. Any use of such marks is under license.

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AGENCY APPROVALS

Limited

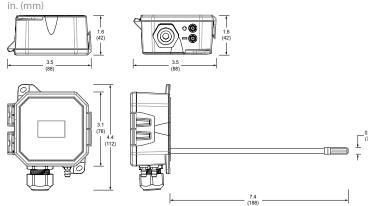
Warranty

DIMENSIONAL DRAWING

EN61326-2-3.

5 years

* Class 2/II power source.



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).

SMART PHONE APP

The Veris Sensors App allows for remote viewing and adjustment of settings. A great tool for reducing commissioning time.





Device Info Screen



Trend Log Tab

