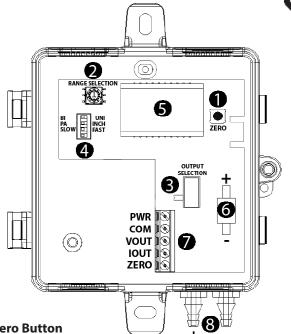
INSTALLATION INSTRUCTIONS

P6 Universal Pressure Sensor 0-5/15/40" W.C. Models With Four Selectable Ranges



- 1 Zero Button
- 2 Range Selection Dial
- 3 Output Selection Switch
- 4 Configuration Switches
- 5 Display
- 6 Pressure Sensor
- 7 Wiring Terminal Block
- 8 Pressure Barbs



WARNING

PRODUCT APPLICATION LIMITATION:

Senva products are not designed to be used as the lone device for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva believes a systems approach to safety is necessary for these types of applications. Senva is not liable, in whole or in part, for any claims or damages arising from such uses.

INSTALLATION

- 1. Screw mount sensor directly to duct, or in panel using selftapping screws.
- 2. Move output selection switch to select appropriate analog output (4-20mA 2 -Wire or 3-Wire configurations or 5V/10V.

Vout	lout(mA)	Position
0-5VDC	3-Wire	Тор
0-10VDC	3-Wire	Middle
-	2-Wire	Bottom

- 3. Move rotary range selection dial to the desired pressure range position and operation mode (Uni or Bi-Directional).
- 4. Plumb air lines to sensor hose barbs(Accepts 1/8" & 1/4" ID tubing). High (+) and low (-) ports are labeled on the sensor.
- 5. Wire sensor for voltage or current output as shown in the wiring diagrams.
- 6. Recomendation: Apply power to sensor. With no pressure applied, press the ZERO SET button for 2-seconds. (For best results, temporarily connect high and low pressure ports together while zeroing.)

LED STATUS/INDICATION

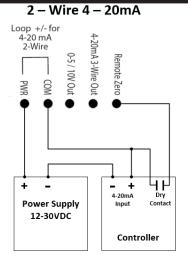
LED indicator will flash every 5 seconds for normal operation. LED indicator will rapidly flash when applied pressure greater than 110% of selected range.

LED indicator will rapidly flash momentarily when zeroing process is complete.

Range Selection Table							
	Inches			Pascals			
Range	5"	15"	40"	1250Pa	3750Pa	10000Pa	
0	0.1	0.25	1	25	50	250	
1	0.25	0.5	2.5	50	125	625	
2	0.5	1	5	125	250	1250	
3	1	2.5	8	250	625	2000	
4	1.5	3	10	375	750	2500	
5	2	4	15	500	1000	3750	
6	2.5	5	20	625	1250	5000	
7	3	8	25	750	2000	6250	
8	4	10	30	1000	2500	7500	
9	5	15	40	1250	3750	10000	

WIRING DIAGRAMS

3 - Wire 4 - 20mA Loop +/- for 4-20 mA 2-Wire 1-20mA 3-Wire Out 0-5 / 10V Out Remote Zerc +4-20mΔ **Power Supply** 12-30VDC Controller 24VAC



Loop +/- for 4-20 mA 2-Wire 1-20mA 3-Wire Out 0-5 / 10V Out Remote Zero PWR 0-5/10V **Power Supply** 12-30VDC Controller 24VAC

Selectable 0-5V and 0-10V

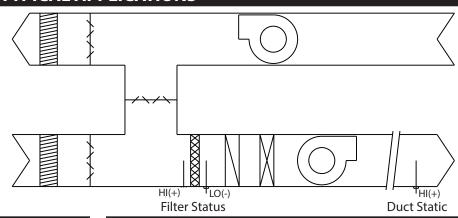
SPECIFICATIONS			
	12-30VDC/24VAC ⁽¹⁾ , 30mA max.		
	3-wire 0-5V/10V, 4-20mA loop powered, 3-wire 4-20mA		
Max Range (Selectable Ranges)	0-5" (0.1/0.25/0.5/1/1.5/2/2.5/3/4/5"wc), 0-1250Pa (25/50/125/250/375/500/625/750/1000/1250 Pa) 0-15" (0.25/0.5/1/2.5/3/4/5/8/10/15"wc) 0-3750Pa (50/125/250/625/750/1000/1250/2000/2500/3750 Pa) 0-40" (1/2.5/5/8/10/15/20/25/30/40"wc) 0-10000Pa (250/625/1250/2000/2500/3750/5000/6250/7500/10000 Pa)		
Operating Range Compensated Range	-4°F to 185°F (-20°C to 85°C) 32°F to 122°F (0°C to 50°C)		
	Dry, oil-free air. Nitrogen.		
Precision calibrated	MEMS silicon piezoresistive		
Slow Mode	8 Seconds		
Fast Mode	2 Seconds		
Combined linearity and hysteresis	+/- 1.0% of selected range		
Auto-zero input	Pushbutton and contact closure input		
Material	ABS		
Dimensions	4.0"h x 3.7"w x 2.1"d		
	Max Range (Selectable Ranges) Operating Range Compensated Range Precision calibrated Slow Mode Fast Mode Combined linearity and hysteresis Auto-zero input Material		

(1) One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.

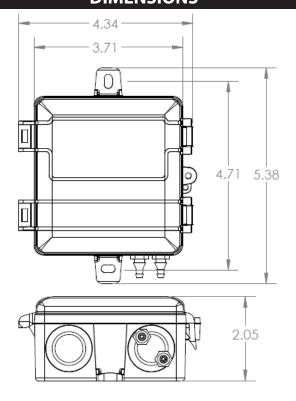
TYPICAL APPLICATIONS

<u>Velocity</u>: Use a pitot tube and plumb high (+) port to total pressure (Pt) connection and low (-) port to static pressure (Ps) connection to directly read Pt-Ps = Pv. Apply correction constant provided by pitot tube manufacturer.

<u>Duct Static</u>: Install a static pressure pickup tube approximately 2/3 of the way down the discharge air duct and plumb to high (+) port for positively pressurized ducts.



DIMENSIONS



IMPORTANT!

IMPORTANT WARNINGS

- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- De-energize power supply prior to installation or service
- Forming a "drip-loop" (allowing tubing to dip below the level of the sensor hose barbs) is recommended to protect the sensor from damage caused by condensation.

TROUBLESHOOTING				
Symptom	Solution			
No output	Check wiring. Ensure power supply meets requirements.			
Pressure reading error	Verify control panel software is configured for correct output scaling.			
	Verify switch settings.			
	Verify tubing is not pinched or leaking.			
	Possible contamination. Ensure sensor is used only on dry air or nitrogen.			