P4 Precision Series

P4 Precision Dry Pressure



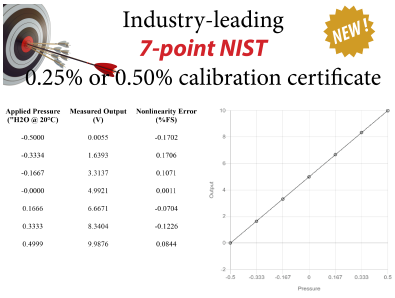
Precision calibrated 0.25% and 0.50% accuracy models
Standard industry leading 7-point NIST certification
LCD display option
LED status indication and Zero push button and contact closure
PATENTED DESIGN

DESCRIPTION

Now with NIST calibrated 0.25% and 0.50% accuracy options, the P4 dry media pressure transmitter features fixed ranges optimized for building (zone) pressure, filter measurement, and static duct applications. Innovative static probe integrates with unit or can be mounted remotely for static pressure. PATENTED DESIGN CALL FOR SPECIAL PRICING

APPLICATIONS

- Building (zone) pressure
- Filter condition measurement
- Duct/static
- OEM HVAC
- Data Centers



Precision NIST calibration



Innovative Probe transforms for duct or remote applications



Conduit Ready



Innovative Probe



High Density DIN mounting saves valuable panel space



Made in USA - 7 year warranty

FEATURES

- 7-point NIST certificate; more accuracy points than any competitor
- 0.25% and 0.50% accuracy versions available from 0.25" to 25" W.C.
- Precision calibrated, temperature compensated, non-position-sensitive pressure element
- Versatile duct, filter, or remote mounting; address all with a single unit with RP-6 probe addition
- DIN mount - forward for LCD panel or sideways for panel space savings
- 0-5VDC/10VDC or 4-20 mA loop & 3 wire powered versions
- Conduit cover for 3/8" flex connectors
- LED facilitates locating sensor in ductwork

ORDERING

P4 - ☐ - ☐ ☐ ☐ ☐ ☐

Fixed Range*

0005 = 0-0.05 "w.c.
0010 = 0-0.10 "w.c.
0025 = 0-0.25 "w.c.
0050 = 0-0.50 "w.c.
0100 = 0-1.0 "w.c.
0150 = 0-1.5 "w.c.
0250 = 0-2.5 "w.c.
0300 = 0-3.0 "w.c.
0500 = 0-5.0 "w.c.
0750 = 0-7.5 "w.c.
1000 = 0-10 "w.c.
1500 = 0-15 "w.c.
2500 = 0-25 "w.c.
5000 = 0-50 "w.c.

0025Pa = 0-25 Pa
0050Pa = 0-50 Pa
0100Pa = 0-100 Pa
0300Pa = 0-300 Pa
0500Pa = 0-500 Pa
1000Pa = 0-1000 Pa
1600Pa = 0-1600 Pa
2500Pa = 0-2500 Pa
3000Pa = 0-3000 Pa
5000Pa = 0-5000 Pa

Output

A = 0-5VDC, 3-Wire
B = 0 -10VDC, 3-Wire
C = 4-20mA, 2-wire
D= 4-20mA, 3-wire

Uni or Bi

U = Uni-directional
B = Bi-directional

Accuracy**

1= 1.00% of range
2 = 0.25% of range NIST
5 = 0.50% of range NIST
N = 1.00% of range NIST

Display

L = LCD
X = No Display

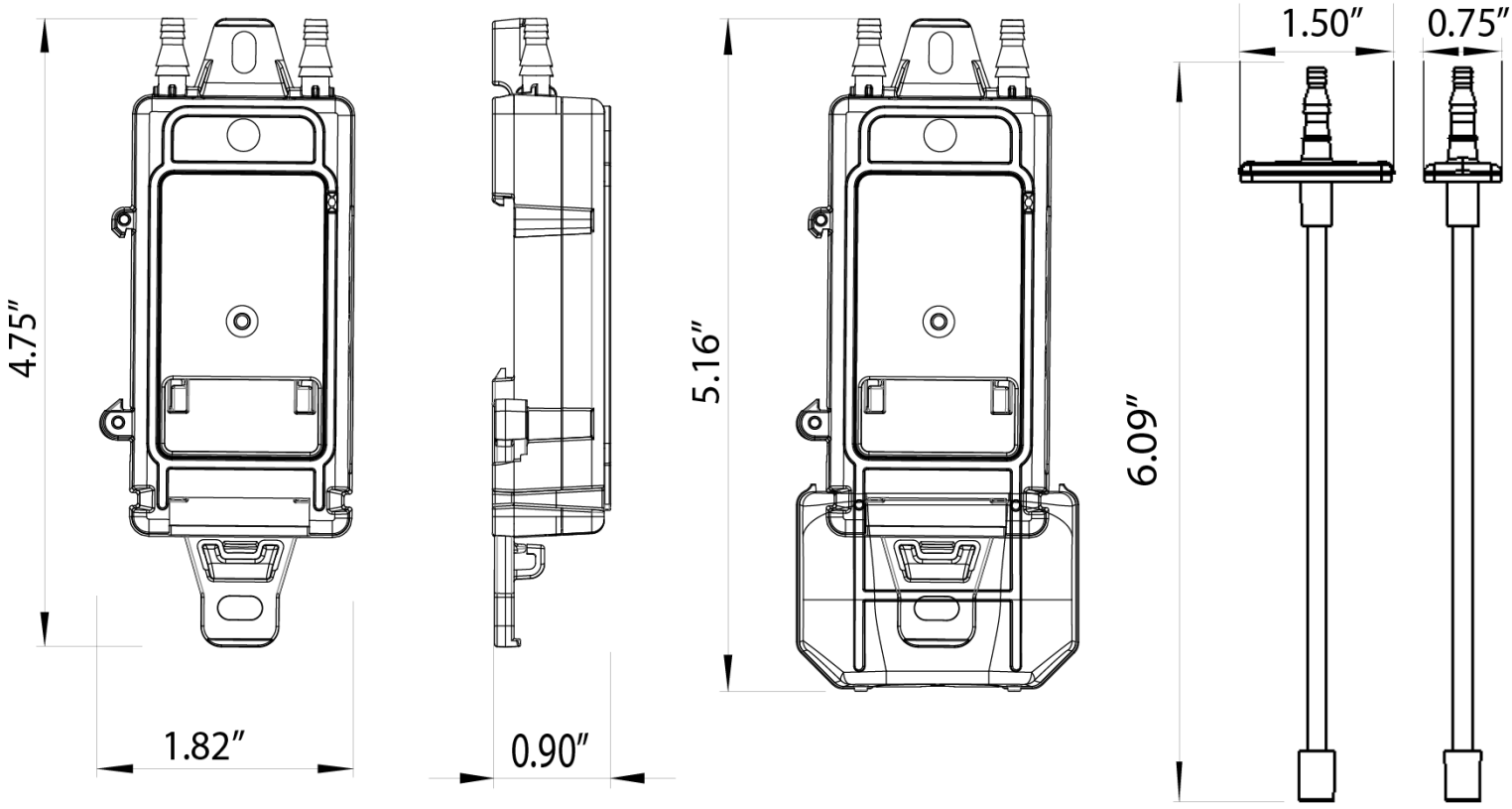
Duct Probe

P = Duct Probe
X = No Probe

Example part number P4-0500-CU2LP is 4-20mA (2-wire), 0.25% accuracy, uni-directional 0-5" WC sensor with LCD display and Duct Probe.

**Other Fixed Ranges Available Upon Request (mmwc, etc), Please Consult Factory*
***0.25% accuracies available on 0.25"w.c. and greater, 0.5% accuracy available on 0.1"w.c. and greater (or equivalent Paranges)*

DIMENSIONS



Warning: The datasheet is designed for reference only. Refer to installation instructions that accompany the product and heed all safety instructions. Product improvement is a continuing process at Senva. Changes may occur to products without prior notice.

SPECIFICATIONS		
Power Supply		12-30VDC/24VAC(1), 30mA max
Output type	Outputs Available	4-20mA loop powered, 4-20 mA 3-wire, 0-5VDC, 0-10VDC
Fixed Ranges	Multiple Fixed Ranges (Inches of w.c. and Pascals)	0.05"w.c. up to 50"w.c. models
		25 Pa up to 5000 Pa models
Operating Temperature	Operating range	-4 to 140F (-20 to 60ºC)
	Compensated range	-4 to 140F (-20 to 60ºC)
Media compatibility		Dry, oil-free air, N2
Sensor Type		MEMS silicon piezoresistive; precision calibrated
Sensor Performance	Accuracy 1.00%	±1.00% of range
	Accuracy 0.25%(2)	±0.25% of range; 7-point NIST calibrated
	Accuracy 0.50%(2)	±0.50% of range; 7-point NIST calibrated
	Zero Tolerance	Included in accuracy specification
	Span Tolerance (3)	±1.00%
	Zero Drift (1 year)	0.004"WC/year max. 0.4% for units >0.5"w.c.
	Auto-zero input	Push-button and contact closure
	Thermal Shift (Zero and Span)	0.02% FSO/ºC (0.01%FSO/ºF) measured from 22ºC (72ºF)
	Overpressure	up to 5" models: 41.5"w.c.; 10" models: 133"w.c.;
		25" models: 332"w.c.
	Max Static Line Pressure	up to 5" models: 41.5"w.c.; 10" models: 133"w.c.; 25" models: 332"w.c.
	Burst Pressure	up to 5" models: 83"w.c.; 10" models: 166"w.c.; 25" models: 415"w.c.
	Position Sensitivity	Non-position sensitive
Response Rate		8 seconds (4)
Agency	Compliance	CE, RoHS
Enclosure	Flammability	UL94 5VB
	Environmental	NEMA 1

(1) One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.
(2) Accuracy includes non-linearity, hysteresis, and repeatability at 70ºF.
(3) Span tolerance is ±1% ±0.005inWC for models less than 0.10inWC or equivalent pressure range.
(4) Full scale response time.

** Product improvement is a continual process at Senva and product features and specification may change without prior notice. Refer to instructions that accompany the product for installation and wiring.*