

Performance Specification

Accuracy:

PT 1000: $\pm 0.1\%$ of span

PT 2500: $\pm 0.25\%$ of span

Calibration:

(Traceable to N.I.S.T.)
Recalibration: Complete recalibration can be accomplished over instrument RS232 interface.

Zero and span can be accomplished via front panel keypad.

Resolution:

$\pm 0.002\%$ of span (max)

Repeatability:

(typical)
 $\pm 0.01\%$ of span (all psi ranges)

$\pm 0.01\%$ of span, (ranges of 1" through 200" H₂O)

$\pm 0.02\%$ of span, (ranges below 1" H₂O)

Pressure Types: gauge (sealed gauge over 300 psi), absolute, compound, differential and vacuum (as noted in range chart)

Temperature Characteristics

Temperature Effect (zero & span):

$\pm 0.004\%$ per degree F from a reference temperature of 70 ± 3 degrees F

Operating Temperature Range:

32–120° F (0 to +49° C)

Temperature Compensation Range:

20–120° F (-7 to +49° C)

Storage Temperature:

-4 to +158° F (-20 to +70° C)

Warm up:

5 minutes to rated accuracy

30 minutes to complete stability

Media Compatibility

Standard:

Inches of water ranges and psi ranges of 5 to 300 psi: clean, dry non-conductive and non-corrosive gases.

Ranges above 300 psi: liquids and gases compatible with 316 SS.

Optional:

316 SS isolation available for ranges from 10-300 psi.

Overpressure:

Inches of H₂O ranges

50 psi positive, 15 psi negative psi ranges

200% for ranges of 5 through 1000 psi

150% for ranges of 1500 psi and above

Physical Characteristics

Display:

liquid crystal

Display Size:

2 line, 0.38 inch height per line, 16 alpha or numeric characters/line (max)

Display Update:

100 ms

Pressure Connection:

$\frac{1}{8}$ NPT internal

Dimensions:

7.72" x 6" x 2.95" (l x w x h)

Panel Cutout:

5.4" x 2.68" (w x h)

Weight:

Will vary based on sensor type and number of sensors installed. Total weight less than 4 lbs with 2 sensors & battery option.

Case Material:

High Impact ABS, black

Power Requirements:

Standard:

ac adapter provided for operation off standard 110 Vdc, 60 Hz supply

Optional:

Built-in rechargeable NiCad power pack (consult factory for availability of alkaline battery power pack).

Battery Life:

25 hours (nominal) without back-lighting of LCD.
5 hours (nominal) with continuous back lighting of LCD.
Activation of RS232 interface will result in approximately a 30% reduction in battery life.

Available Ranges

Inches of Water Ranges

Gauge & Differential

0/0.25 0/3.0 0/25 0/200

0/0.5 0/5.0 0/50

0/1.0 0/10 0/100

0/2.0 0/15 0/150

Compound

± 0.125 ± 1.5 ± 12.5 ± 100

± 0.25 ± 2.5 ± 25

± 0.5 ± 5.0 ± 50

± 1.0 ± 7.5 ± 75

PSI Ranges

Gauge & Absolute

0/5 0/150 0/1500 0/7500

0/10 0/200 0/2000

0/15 0/250 0/2500

0/30 0/300 0/3000

0/50 0/500 0/4000

0/60 0/600 0/5000

Vacuum

-15/0 -10/0 -5/0

Compound

-15/+15 -10/+10 -5/+5

-15/+30

-15/+60

How to Specify a PT Product:

- Specify: [P]
- Model:** T1
 - Accuracy: (% of span)**
A- for $\pm 0.25\%$ B- for $\pm 0.10\%$
 - Power Supply:**
1- for 110 Vdc, 60 Hz
2- for 220 Vdc, 50 Hz
3- for 100 Vdc, 50 Hz
4- for 110 Vdc, 60 Hz with battery option
5- for 220 Vdc, 50 Hz with battery option
6- for 100 Vdc, 50 Hz with battery option
 - Display type:**
S- for standard without backlight
B- for backlit display
 - Accessories**
X1- for no accessories
A1- for handle
B1- for panel mounting brackets
C1- for both handle and panel mounting brackets
D1- for retrofit panel with brackets for Series 7 & 9
 - Sensor 1 Type & Media Compatibility**
A- capacitive (inches of water ranges), non-isolated
B- piezoresistive (inches of water), non-isolated
C- piezoresistive (psi), non isolated
D- piezoresistive (psi), 316 stainless steel isolated
X- no sensor (if selected part number is complete)
 - Pressure Type and Range**
Select ordering code from chart
 - Fitting**
N- for $\frac{1}{8}$ NPT internal thread
G- for G $\frac{1}{8}$ British Standard
 - Sensor 2 Type & Media Compatibility**
A- capacitive, non isolated (inches of water ranges)
B- piezoresistive (inches of water), non-isolated
C- piezoresistive (psi), non isolated
D- piezoresistive (psi), 316 SS isolated
X- no sensor (if selected part number is complete)
 - Pressure Type and Range (sensor 2)**
Select ordering code from chart
 - Fitting (sensor 2)**
N- for $\frac{1}{8}$ NPT internal thread
G- for G $\frac{1}{8}$ British Standard

Pressure Type and Range Coding Table

Inches of Water Ranges Gauge & Differential

Range (inH ₂ O)	Ordering Code	Range (inH ₂ O)	Ordering Code	Range (inH ₂ O)	Ordering Code
0/0.25	D03	0/3.0	D16	0/25	D29
0/0.5	D06	0/5.0	D20	0/50	D32
0/1.0	D09	0/10	D24	0/100	D35
0/2.0	D13	0/15	D26	0/150	D37
				0/200	D40

Compound Inches of Water Ranges

Range (inH ₂ O)	Ordering Code	Range (inH ₂ O)	Ordering Code	Range (inH ₂ O)	Ordering Code
± 0.125	C03	± 1.5	C12	± 12.5	C20
± 0.25	C05	± 2.5	C14	± 25	C23
± 0.5	C08	± 5.0	C17	± 50	C26
± 1.0	C10	± 7.5	C18	± 75	C29
				± 100	C31

Gauge Inches of Water Ranges

Range (inH ₂ O)	Ordering Code	Range (inH ₂ O)	Ordering Code	Range (inH ₂ O)	Ordering Code
0/10	G44	0/15	G45	0/25	G46
0/50	G47				

psi Ranges

Absolute psi Pressure Ranges

Range (psi)	Ordering Code	Range (psi)	Ordering Code	Range (psi)	Ordering Code
0/5	A05	0/150	A17	0/1500	A30
0/10	A07	0/200	A19	0/2000	A32
0/15	A08	0/250	A20	0/2500	A33
0/30	A10	0/300	A21	0/3000	A34
0/50	A12	0/500	A23	0/4000	A35
0/60	A13	0/600	A25	0/5000	A36
0/100	A15	0/1000	A28	0/6000	A37
				0/7500	A39

Gauge psi Pressure Ranges

Range (psi)	Ordering Code	Range (psi)	Ordering Code	Range (psi)	Ordering Code
0/5	G05	0/150	G17	0/1500	G30
0/10	G07	0/200	G19	0/2000	G32
0/15	G08	0/250	G20	0/2500	G33
0/30	G10	0/300	G21	0/3000	G34
0/50	G12	0/500	G23	0/4000	G35
0/60	G13	0/600	G25	0/5000	G36
0/100	G15	0/1000	G28	0/6000	G37
				0/7500	G39

Vacuum psi Pressure Ranges

Range (psi)	Ordering Code	Range (psi)	Ordering Code	Range (psi)	Ordering Code
-5/0	V05	-10/0	V10	-15/0	V15

Compound psi Pressure Ranges

Range (psi)	Ordering Code	Range (psi)	Ordering Code	Range (psi)	Ordering Code
-5/+5	C75	-15/+15	C80	-15/+60	C84
-10/+10	C78	-15/+30	C82		

For example,

A PT1B4BA1AD16NDG21N is a:

Ashcroft Pressure Tester Indicator [PT1]

Accuracy of $\pm 0.1\%$ of span [B]

110 Vdc, 60 Hz with battery option [4]

Back-lit display [B]

Handle accessory [A1]

Sensor 1- Capacitive Sensor Non-isolated [A]

Range 0/3 inches of water [D16]

$\frac{1}{8}$ NPT internal thread [N]

Sensor 2- Piezoresistive, psi range, isolated [D]

Range 0/100 psig [G21]

$\frac{1}{8}$ NPT internal thread [N]