



DESCRIPTION

BAPI's ZPT Series zone pressure touch sensor is an accurate, rugged, and economical solution for measuring and reporting duct/building static pressure, room-to-room differential pressure, or air velocities/volumes. The heart of the unit is a micro-machined silicon pressure sensor with excellent accuracy, repeatability, and stability.

The touch interface allows for quick and easy menu driven set up of all parameters including auto zero, pressure ranges, output ranges, W.C. or Pascal operation, and display format of pressure, percent output, or "On." You can also use the interface to create custom ranges by adjusting the upper and lower pressure endpoints.

NEW!



ZPT Series



FEATURES

- **Touch interface through the cover, no more dip switches**
- **Field selectable output, pressure ranges and WC or pascal operation**
- **Free NIST certificate included with each pressure unit**
- **21 selectable pressure ranges**
- **Adjustable pressure endpoints for custom pressure ranges**

SPECIFICATIONS

Supply Voltage		Max Operating Pressure	
Current Output		(Proof)±27.67"WC, (±6.89 kPa)	
Volts Output		Operating Temperature -4 to 140°F (-20 to 60°C)	
Signal Output		Operating Humidity 0 to 95% Non-condensing	
7 to 40V DC @20mA		Wetted Parts Silicone	
13 to 40VDC/18 to 32VAC		Media Compatibility Inert	
Signal Output		dry air	
0-5V, 1-5V, 0-10V, 2-10V, 4-20mA		Process Connection	
loop per ordered		3/16"OD brass, for 1/4" OD tubing	
Min Voltage Output Impedance		Wiring	
1KΩ		3 plug-in terminals 2-(4-20mA),	
Max Current Output Impedance		3-(Volts)	
850Ω@24VDC		Mounting	
Accuracy		2 or 4 , #10 screws (vertical position)	
±0.25% of range @72°F(NIST		Enclosure Rating	
included)		UV-Polycarbonate, NEMA 4, (IP66)	
Sensor Type		Dimensions	
Capacitive		4.1" w x 5.49 h x 2.5" d, (10.4 x 13.9	
Adjustments		x 6.4 cm)	
(Z/S) Range select and Zero & Span		Weight	
from touch screen		1.0 lb (0.45kg),	
Normal Measurement Range		Approvals	
0 to 5"WC, Uni- or Bi- Directional		CE, RoHS, UL94-V0	
Display		Warranty	
LCD, 4 digits, 0.37" high (readout		3 year	
may be neutralized)			
Overpressure			
(Burst) ±41.52"WC (10.34 kPa)			



PRESSURE

ZONE PRESSURE TOUCH SENSORS ZPT SERIES

WIRING

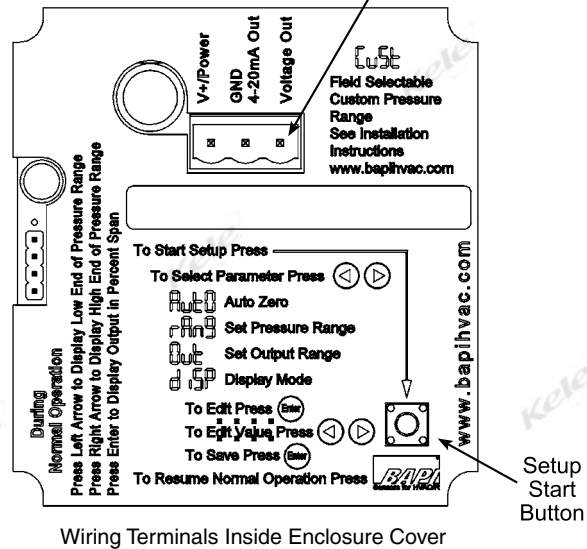
Current Loop Connection

The ZPT unit requires DC voltage for 4 to 20 mA current loop output, which is “two-wire” operation.

Current Loop Output Connection

Terminal	Function
V+/Power	7 to 40 VDC
GND/4 to 20mA Out	4 to 20 mA Signal Output
Voltage Out	Not used

Note: Wiring plug removed for clarity.



ORDERING INFORMATION

MODEL	DESCRIPTION
ZPT	Differential pressure transmitter
OUTPUT RANGE	
20	4-20 mA (7 to 40 VDC supply ONLY)
CHOOSE RANGE NUMBER, EITHER LOW RANGE OR STANDARD RANGE	
##	LR- Low range: pressure ranges 0 to 1" W.C., +/-1.0"W.C.
Option	Range ("W.C.)
51	0 to 0.10
52	0 to 0.25
53	0 to 0.50
54	0 to 0.75
55	0 to 1.00
56	-0.10 to 0.10
57	-0.25 to 0.25
58	-0.50 to 0.50
59	-0.75 to 0.75
60	-1.00 to 1.00
Option	Range (Pa)
61	0 to 30
62	0 to 50
63	0 to 100
64	0 to 175
65	0 to 500
66	-30 to 30
67	-50 to 50
68	-100 to 100
69	-175 to 175
70	-250 to 250
Option	Range ("W.C.)
71	0 to 1.00
72	0 to 2.00
73	0 to 2.50
74	0 to 3.00
75	0 to 5.00
76	-1.00 to 1.00
77	-2.00 to 2.00
78	-2.50 to 2.50
79	-3.00 to 3.00
80	-5.00 to 5.00
Option	Range (Pa)
81	0 to 250
82	0 to 300
83	0 to 500
84	0 to 1000
85	0 to 1250
86	-250 to 250
87	-300 to 300
88	-500 to 500
89	-1000 to 1000
90	-1250 to 1250

ENCLOSURE

BB BAPI Box

STATIC PRESSURE PROBE (MUST SELECT ONE)

NT No tube or probe included

ST Static pressure measurement probe

AT Attached static pressure probe (Not available with back mount (BM))

BACK MOUNT OPTION

BM Back mount

Example: ZPT-20-52-BB-NT-BM Differential pressure transmitter with 4-20 mA output range, standard 0 to 0.25 pressure range, no tube or probe, back mount

Part #	Description
ZPT-LR-BB-NT-D	Zone pressure touch sensor, low ranges, no tube or probe included
ZPT-LR-BB-ST-D	Zone pressure touch sensor, low ranges, with static pressure probe
ZPT-LR-BB-AT-D	Zone pressure touch sensor, low ranges, with attached static tube
ZPT-SR-BB-NT-D	Zone pressure touch sensor, standard ranges, no tube or probe included
ZPT-SR-BB-ST-D	Zone pressure touch sensor, standard ranges, with static pressure probe
ZPT-SR-BB-AT-D	Zone pressure touch sensor, standard ranges, with attached static tube