



## Features & Options

- 10 Pressure Ranges and 5 Outputs -- All Field Selectable Without Power or Tools!
- Thumb Latch Closure - No Cover Screws to Lose
- Optional Display Aids in Troubleshooting by Showing Pressure Over Entire Operational Range
- Standard, Low and High Range Models
- Three LEDs to Indicate Current Pressure Status
- NIST Certificate Included at No Extra Charge



Ranges and Outputs Can Be Set Easily Without Tools and Without Powering the Unit. Just open the hinged cover.



ZPM Pressure Sensor



## Specifications

### Power:

7 to 40 VDC (4 to 20 mA Output)  
7 to 40 VDC or 18 to 32 VAC (0 to 5 or 1 to 5 V Output)  
13 to 40 VDC or 18 to 32 VAC (0 to 10 or 2 to 10 V Output)

### Power Consumption:

20 mA max, DC only at 4 to 20 mA Output  
4.9 mA max DC at 0 to 5 VDC or 0 to 10 VDC Output  
0.12 VA max AC at 0 to 5 VDC or 0 to 10 VDC Output

### Load Resistance:

4 to 20 mA Output 850  $\Omega$  Maximum @ 24 VDC  
0 to 5 V or 0 to 10 V output 6K to 10K $\Omega$  minimum

### Accuracy for Standard Pressure Ranges at 72°F:

$\pm 0.25\%$  of range

### Accuracy for Low Pressure Ranges at 72°F:

$\pm 0.5\%$  of range for the three lowest unidirectional and bidirectional ranges,  $\pm 0.25\%$  of range all other ranges

### Accuracy for High Pressure Ranges at 72°F:

$\pm 0.25\%$  on all ranges

### Stability: $\pm 0.25\%$ F.S. per year

### Environmental Op. Range: -4 to 140°F (-20 to 60°C)

### Storage Temperature: -40 to 203°F (-40 to 95°C)

### Temperature Error Low Range:

0.04% FS/°F (0.07% FS/°C)  
( $\pm 1.0$ " W.C @ -4 to 140°F (-20 to 60°C))

### Temperature Error Standard Range:

0.01% FS/°F (0.02% FS/°C)  
( $\pm 5.0$ " W.C @ -4 to 140°F (-20 to 60°C))

### Temperature Error High Range:

0.015% FS/°F (0.025% FS/°C)  
(0 to 30" W.C @ -4 to 140°F (-20 to 60°C))

### Overpressure:

Proof: 300.1 WC (10.83 PSI)  
Burst: 512.6 WC (18.5 PSI)

### Wiring:

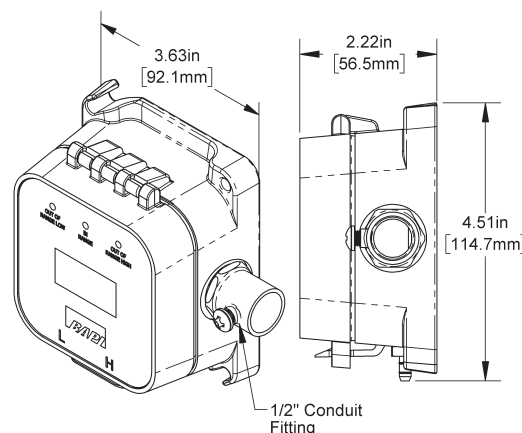
2 wires (4 to 20mA Current loop)\*  
3 wires (AC or DC powered, Voltage out)\*

### Humidity: 0 to 95% RH, non-condensing

### Port Size: 1/4" tubing (1/8" to 3/16" I.D.)

### Encl. Material: UV-resistant Polycarb., UL94, V-0

### Enclosure Rating: IP44, NEMA 2



\*BAPI recommends that you do not run wiring for the pressure transmitter in the same conduit as line voltage wiring or with wiring used to supply highly inductive loads such as motors, generators and coils.



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### Ordering Information

#### STANDARD RANGE UNITS

##### PART NUMBER DESCRIPTION

BA/ZPM-SR-NT-D ..... ZPM Standard Range Unit, No Tube or Probe included, with Display

BA/ZPM-SR-ST-D ..... ZPM Standard Range Unit, with Static Pressure Tube, with Display

BA/ZPM-SR-AT-D ..... ZPM Standard Range Unit, with Attached Static Tube, with Display

BA/ZPM-SR-NT-ND .... ZPM Standard Range Unit, No Tube or Probe included, No Display

BA/ZPM-SR-ST-ND..... ZPM Standard Range Unit, with Static Pressure Tube, No Display

BA/ZPM-SR-AT-ND..... ZPM Standard Range Unit, with Attached Static Tube, No Display

#### LOW RANGE UNITS

BA/ZPM-LR-NT-D ..... ZPM Low Range Unit, No Tube or Probe included, with Display

BA/ZPM-LR-ST-D ..... ZPM Low Range Unit, with Static Pressure Tube, with Display

BA/ZPM-LR-AT-D ..... ZPM Low Range Unit, with Attached Static Tube, with Display

BA/ZPM-LR-NT-ND..... ZPM Low Range Unit, No Tube or Probe included, No Display

BA/ZPM-LR-ST-ND..... ZPM Low Range Unit, with Static Pressure Tube, No Display

BA/ZPM-LR-AT-ND..... ZPM Low Range Unit, with Attached Static Tube, No Display

#### HIGH RANGE UNITS

BA/ZPM-HR-NT-D ..... ZPM High Range Unit, No Tube or Probe included, with Display

BA/ZPM-HR-ST-D ..... ZPM High Range Unit, with Static Pressure Tube, with Display

BA/ZPM-HR-AT-D ..... ZPM High Range Unit, with Attached Static Tube, with Display

BA/ZPM-HR-NT-ND .... ZPM High Range Unit, No Tube or Probe included, No Display

BA/ZPM-HR-ST-ND .... ZPM High Range Unit, with Static Pressure Tube, No Display

BA/ZPM-HR-AT-ND .... ZPM High Range Unit, with Attached Static Tube, No Display

Pressure Range, Output Range and Inches of Water Column or Pascal Operation will be selected in the field for these units. Ranges and Outputs shown below:

*Custom Ranges are also available. Contact your BAPI representative for ordering information.*

Your Number: BA/ZPM-

### Field Selectable Ranges and Outputs

#### STANDARD RANGE UNITS

##### Inches WC Pascals

0 to 1.00..... 0 to 250  
0 to 2.00..... 0 to 300  
0 to 2.50..... 0 to 500  
0 to 3.00..... 0 to 1,000  
0 to 5.00..... 0 to 1,250

-1.00 to 1.00 ..... -250 to 250  
-2.00 to 2.00 ..... -300 to 300  
-2.50 to 2.50 ..... -500 to 500  
-3.00 to 3.00 ... -1,000 to 1,000  
-5.00 to 5.00 ... -1,250 to 1,250

#### LOW RANGE UNITS

##### Inches WC Pascals

0 to 0.10..... 0 to 30  
0 to 0.25..... 0 to 50  
0 to 0.50..... 0 to 100  
0 to 0.75..... 0 to 175  
0 to 1.00..... 0 to 250

-0.10 to 0.10 ..... -30 to 30  
-0.25 to 0.25 ..... -50 to 50  
-0.50 to 0.50 ..... -100 to 100  
-0.75 to 0.75 ..... -175 to 175  
-1.00 to 1.00 ..... -250 to 250

#### HIGH RANGE UNITS

##### Inches WC Pascals

0 to 5..... 0 to 1,250  
0 to 10..... 0 to 2,500  
0 to 15..... 0 to 4,000  
0 to 25..... 0 to 6,000  
0 to 30..... 0 to 7,400

#### OUTPUTS AVAILABLE

4 to 20 mA  
0 to 5 V  
0 to 10 V  
2 to 10 V  
1 to 5 V

