




Features & Options

- 10 Pressure Ranges and 5 Output Options
 - Standard, Low and High Range Models
 - Non-Flow-Through Sensor so There's No Cross Contamination of Air
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 - Outputs, Ranges and Units all Easily Set in the Field Without Power
 - NIST Certificate Available at No Extra Charge
 - Thumb Latch Closure - No Screws to Lose
 - Optional Display Aids in Troubleshooting by Showing the Actual Pressure Regardless of the Selected Range
 - Three LEDs to Indicate Current Pressure Status Without Having to Access the BAS



IP66-Rated ZPM Unit

An IP66-rated version of the ZPM pressure sensor in a BAPI-Box is also available. See pgs D6-7.



Ranges and Outputs Can Be Set Easily Without Powering the Unit. Just Open the Hinged Cover.



ZPM Pressure Sensor

5
YEAR
WARRANTY

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 VDC Output)
13 to 40 VDC or 18 to 32 VAC (0 to 10 or 2 to 10 VDC Output)

Power Consumption:

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

Load Resistance:

4 to 20 mA Output 850 Ω Maximum @ 24 VDC
0 to 5 or 0 to 10 VDC Output 6K Ω Minimum

Accuracy: $\pm 0.25\%$ FS at 77°F (25°C) for all units

Low Range: ± 0.005 " WC (± 1.24 Pa)
Standard Range: ± 0.025 " WC (± 6.22 Pa)
High Range: ± 0.075 " WC (± 18.66 Pa)

Total Error Band*:

Low Range: $\pm 1.25\%$ FS or ± 0.025 " WC (± 6.22 Pa)
Standard Range: $\pm 0.5\%$ FS or ± 0.05 " WC (± 12.44 Pa)
High Range: $\pm 0.5\%$ FS or ± 0.15 " WC (± 37.33 Pa)

Temp Hysteresis & Stability (for 1000 hours):

Low Range: $\pm 0.35\%$ at 77°F (25°C)
Standard & High Range: $\pm 0.25\%$ at 77°F (25°C)

Overpressure:

Low Range: Proof 270" WC (67 kPa)
Standard Range: Proof 300" WC (74 kPa)
High Range: Proof 350" WC (87 kPa)

Media: Clean, dry, non-corrosive gases

Wiring:

3 wires (2 wires for 4 to 20mA output)

Environmental Operating Range:

-4 to 140°F (-20 to 60°C)

Storage Temp: -40 to 185°F (-40 to 85°C)

Humidity: 0 to 95% RH, non-condensing

Port Size: 1/4" barb (6.3mm)

Enclosure Material & Rating:

UV-resistant Polycarbonate, UL94 V-0
IP44, NEMA 2

Enclosure Dimensions: L x W x H

4.51 x 3.63 x 2.22" (115 x 92 x 57mm)

(See end of section for full dimensions)

Agency:

CE EN 61326-1:2013 EMC (Industrial Electromagnetic Environment), RoHS

*Total Error Band is the accuracy within the compensated temperature range of 32 to 122°F (0 to 50°C). The Total Error Band covers non-linearity, hysteresis and thermal effect on span. This is only valid after the initial startup and auto-zero process has been performed.



Datasheets without List Prices are available on our website at www.bapihvac.com

Ordering Information

STANDARD RANGE UNITS

| PART NUMBER | DESCRIPTION | LIST PRICE |
|-----------------|--|------------|
| BA/ZPM-SR-NT-D | ZPM Standard Range, No Probe included, with Display | \$360 |
| BA/ZPM-SR-ST-D | ZPM Standard Range, with Static Pressure Probe and Display | \$360 |
| BA/ZPM-SR-AT-D | ZPM Standard Range, with Attached Static Probe and Display | \$360 |
| BA/ZPM-SR-NT-ND | ZPM Standard Range, No Probe included, No Display | \$360 |
| BA/ZPM-SR-ST-ND | ZPM Standard Range, with Static Pressure Probe, No Display | \$360 |
| BA/ZPM-SR-AT-ND | ZPM Standard Range, with Attached Static Probe, No Display | \$360 |

LOW RANGE UNITS

| | | |
|-----------------|---|-------|
| BA/ZPM-LR-NT-D | ZPM Low Range, No Probe included, with Display | \$360 |
| BA/ZPM-LR-ST-D | ZPM Low Range, with Static Pressure Probe and Display | \$360 |
| BA/ZPM-LR-AT-D | ZPM Low Range, with Attached Static Probe and Display | \$360 |
| BA/ZPM-LR-NT-ND | ZPM Low Range, No Probe included, No Display | \$360 |
| BA/ZPM-LR-ST-ND | ZPM Low Range, with Static Pressure Probe, No Display | \$360 |
| BA/ZPM-LR-AT-ND | ZPM Low Range, with Attached Static Probe, No Display | \$360 |

HIGH RANGE UNITS

| | | |
|-----------------|--|-------|
| BA/ZPM-HR-NT-D | ZPM High Range, No Probe included, with Display | \$360 |
| BA/ZPM-HR-ST-D | ZPM High Range, with Static Pressure Probe and Display | \$360 |
| BA/ZPM-HR-AT-D | ZPM High Range, with Attached Static Probe and Display | \$360 |
| BA/ZPM-HR-NT-ND | ZPM High Range, No Probe included, No Display | \$360 |
| BA/ZPM-HR-ST-ND | ZPM High Range, with Static Pressure Probe, No Display | \$360 |
| BA/ZPM-HR-AT-ND | ZPM High Range, with Attached Static Probe, No Display | \$360 |

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

