



## 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
- IP66-rated Enclosure with Thumb Latch Closure
- NIST Certificate Available at No Extra Charge
- Outputs, Ranges and Units all Easily Set in the Field Without Power
- 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



### IP44-Rated ZPM Unit

An IP44-rated version of the ZPM pressure sensor is also available. See pgs D4-5.



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



**5**  
YEAR  
WARRANTY

ZPM BAPI-Box 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 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  $\Omega$  Maximum @ 24 VDC  
0 to 5 or 0 to 10 VDC Output 6K $\Omega$  Minimum

### System Accuracy: $\pm 0.25\%$ FS at 72°F (22°C) for all units

Low Range Unit:  $\pm 0.005$ " WC ( $\pm 1.24$  Pa)  
Standard Range Unit:  $\pm 0.025$ " WC ( $\pm 6.22$  Pa)  
High Range Unit:  $\pm 0.075$ " WC ( $\pm 18.66$  Pa)

### Stability: $\pm 0.25\%$ FS per year

### 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

### Compensated Temperature Range:

32 to 122°F (0 to 50°C)

### Environmental Operating Range:

-4 to 140°F (-20 to 60°C)

### Storage Temperature:

-40 to 185°F (-40 to 85°C)

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

### Wiring:

2 wires (4 to 20mA Current loop)  
3 wires (AC or DC powered, VDC output)

### Port Size: 1/4" barb

### Enclosure Material:

UV-resistant Polycarbonate, UL94 V-0

### Enclosure Rating: IP66, NEMA 4

### Enclosure Dimensions: H x W x D

5.49 x 4.11 x 2.5" (139 x 104 x 64mm)

(See end of section for full dimension drawing)

### Agency:

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





# ZPM BAPI-Box Pressure Sensor

D7

Zone Pressure Multi-Sensors (ZPM) in an IP66 enclosure

## Ordering Information

### STANDARD RANGE UNITS

**PART NUMBER      DESCRIPTION**

- BA/ZPM-SR-NT-D-BB**.... ZPM BAPI-Box Standard Range, No Probe included, with Display
- BA/ZPM-SR-ST-D-BB**.... ZPM BAPI-Box Standard Range, with Static Pressure Probe and Display
- BA/ZPM-SR-AT-D-BB**.... ZPM BAPI-Box Standard Range, with Attached Static Probe and Display
- BA/ZPM-SR-NT-ND-BB** .ZPM BAPI-Box Standard Range, No Probe included, No Display
- BA/ZPM-SR-ST-ND-BB** .ZPM BAPI-Box Standard Range, with Static Pressure Probe, No Display
- BA/ZPM-SR-AT-ND-BB** .ZPM BAPI-Box Standard Range, with Attached Static Probe, No Display

### LOW RANGE UNITS

- BA/ZPM-LR-NT-D-BB**.... ZPM BAPI-Box Low Range, No Probe included, with Display
- BA/ZPM-LR-ST-D-BB**.... ZPM BAPI-Box Low Range, with Static Pressure Probe and Display
- BA/ZPM-LR-AT-D-BB**.... ZPM BAPI-Box Low Range, with Attached Static Probe and Display
- BA/ZPM-LR-NT-ND-BB** .ZPM BAPI-Box Low Range, No Probe included, No Display
- BA/ZPM-LR-ST-ND-BB** .ZPM BAPI-Box Low Range, with Static Pressure Probe, No Display
- BA/ZPM-LR-AT-ND-BB** .ZPM BAPI-Box Low Range, with Attached Static Probe, No Display

### HIGH RANGE UNITS

- BA/ZPM-HR-NT-D-BB** ... ZPM BAPI-Box High Range, No Probe included, with Display
- BA/ZPM-HR-ST-D-BB**.... ZPM BAPI-Box High Range, with Static Pressure Probe and Display
- BA/ZPM-HR-AT-D-BB**.... ZPM BAPI-Box High Range, with Attached Static Probe and Display
- BA/ZPM-HR-NT-ND-BB** .ZPM BAPI-Box High Range, No Probe included, No Display
- BA/ZPM-HR-ST-ND-BB** .ZPM BAPI-Box High Range, with Static Pressure Probe, No Display
- BA/ZPM-HR-AT-ND-BB** .ZPM BAPI-Box High Range, with Attached Static Probe, 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          |