



## 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



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



- IP66-rated Enclosure with Thumb Latch Closure



- NIST Certificate Included with With Each Unit 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



**5**  
YEAR  
WARRANTY

ZPM BAPI-Box Pressure Sensor



### IP44-Rated ZPM Unit

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

## 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-Sensor (ZPM) in an IP66 enclosure

Datasheets without List Prices are available on our website at [www.bapihvac.com](http://www.bapihvac.com)

## Ordering Information

### STANDARD RANGE UNITS

PART NUMBER	DESCRIPTION	LIST PRICE
BA/ZPM-SR-NT-D-BB....	ZPM BAPI-Box Standard Range, No Probe included, with Display.....	\$425
BA/ZPM-SR-ST-D-BB....	ZPM BAPI-Box Standard Range, with Static Pressure Probe and Display..	\$425
BA/ZPM-SR-AT-D-BB....	ZPM BAPI-Box Standard Range, with Attached Static Probe and Display..	\$425
BA/ZPM-SR-NT-ND-BB.	ZPM BAPI-Box Standard Range, No Probe included, No Display .....	\$425
BA/ZPM-SR-ST-ND-BB.	ZPM BAPI-Box Standard Range, with Static Pressure Probe, No Display..	\$425
BA/ZPM-SR-AT-ND-BB.	ZPM BAPI-Box Standard Range, with Attached Static Probe, No Display ..	\$425

### LOW RANGE UNITS

BA/ZPM-LR-NT-D-BB....	ZPM BAPI-Box Low Range, No Probe included, with Display.....	\$425
BA/ZPM-LR-ST-D-BB....	ZPM BAPI-Box Low Range, with Static Pressure Probe and Display .....	\$425
BA/ZPM-LR-AT-D-BB....	ZPM BAPI-Box Low Range, with Attached Static Probe and Display.....	\$425
BA/ZPM-LR-NT-ND-BB.	ZPM BAPI-Box Low Range, No Probe included, No Display .....	\$425
BA/ZPM-LR-ST-ND-BB.	ZPM BAPI-Box Low Range, with Static Pressure Probe, No Display.....	\$425
BA/ZPM-LR-AT-ND-BB.	ZPM BAPI-Box Low Range, with Attached Static Probe, No Display .....	\$425

### HIGH RANGE UNITS

BA/ZPM-HR-NT-D-BB ...	ZPM BAPI-Box High Range, No Probe included, with Display.....	\$425
BA/ZPM-HR-ST-D-BB....	ZPM BAPI-Box High Range, with Static Pressure Probe and Display .....	\$425
BA/ZPM-HR-AT-D-BB....	ZPM BAPI-Box High Range, with Attached Static Probe and Display.....	\$425
BA/ZPM-HR-NT-ND-BB.	ZPM BAPI-Box High Range, No Probe included, No Display.....	\$425
BA/ZPM-HR-ST-ND-BB.	ZPM BAPI-Box High Range, with Static Pressure Probe, No Display.....	\$425
BA/ZPM-HR-AT-ND-BB.	ZPM BAPI-Box High Range, with Attached Static Probe, No Display .....	\$425

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

