



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 Ω Maximum @ 24 VDC
0 to 5 or 0 to 10 VDC Output 6K Ω Minimum

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

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

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

