ZPM Pressure Sensor

Zone Pressure Multi-Sensors (ZPM)

CE Rev. 12/06/21

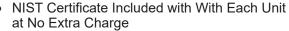


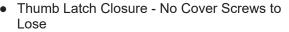
Features & Options

- 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

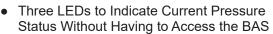


 Outputs, Ranges and Units all Easily Set in the Field Without Power











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

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: ±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: ±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: 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 dimension drawing.)

Agency:

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



Building Automation Products, Inc. • 750 North Royal Avenue, Gays Mills, WI 54631 USA Tel: +1-608-735-4800 • Fax: +1-608-735-4804 • Email: sales@bapihvac.com • Web: www.bapihvac.com



Zone Pressure Multi-Sensors (ZPM)

Ordering Information

STANDARD RANGE UNITS

PART NUMBER	<u>DESCRIPTION</u>
BA/ZPM-SR-NT-D	. ZPM Standard Range, No Probe included, with Display
	. ZPM Standard Range, with Static Pressure Probe and Display
BA/ZPM-SR-AT-D	. ZPM Standard Range, with Attached Static Probe and Display
BA/ZPM-SR-NT-ND	. ZPM Standard Range, No Probe included, No Display
	. ZPM Standard Range, with Static Pressure Probe, No Display
BA/ZPM-SR-AT-ND	. ZPM Standard Range, with Attached Static Probe, No Display

LOW RANGE UNITS

BA/ZPM-LR-N I -D ZPM Low Range, No Probe included, with Display	
BA/ZPM-LR-ST-D ZPM Low Range, with Static Pressure Probe and Display	
BA/ZPM-LR-AT-D ZPM Low Range, with Attached Static Probe and Display	
BA/ZPM-LR-NT-ND ZPM Low Range, No Probe included, No Display	
BA/ZPM-LR-ST-ND ZPM Low Range, with Static Pressure Probe, No Display	
BA/ZPM-LR-AT-ND ZPM Low Range, with Attached Static Probe, No Display	

HIGH RANGE UNITS

BA/ZPM-HR-NT-D	ZPM High	Range,	No Probe included, w	rith Display
BA/ZPM-HR-ST-D	ZPM High	Range,	with Static Pressure I	Probe and Display
BA/ZPM-HR-AT-D	ZPM High	Range,	with Attached Static F	Probe and Display
BA/ZPM-HR-NT-ND	ZPM High	Range,	No Probe included, N	lo Display
BA/ZPM-HR-ST-ND.	ZPM High	Range,	with Static Pressure I	Probe, No Display
BA/ZPM-HR-AT-ND.	ZPM High	Range.	with Attached Static F	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 RANGI	E UNITS
Inches WC	<u>Pascals</u>
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 3.001,0	00 to 1,000
-5.00 to 5.001,2	50 to 1,250

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

LOW RANGE UNITS

HIGH RANGE	UNITS
Inches WC	<u>Pascals</u>
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

