

Features & Options

- 10 Pressure Ranges and 5 Field Outputs – All Easily Set Without Powering the Unit
- IP66-rated Enclosure with Thumb Latch Closure
- Optional Display Shows Pressure Over the Entire Operational Range Regardless of Which Pressure Range is Selected
- Standard, Low and High Range Units
- NIST Certificate Included at No Extra Charge

BAPI's ZPM in an IP66-rated BAPI-Box is designed for quick and easy field installation. The outputs, ranges, units, directionality, and response time are quickly set in the field without powering the unit.

The optional LCD display helps with troubleshooting because it displays the actual differential pressure over the entire operational range regardless of which individual pressure range is selected for output to the system controller. Three LEDs on the face of the unit indicate when the pressure is "Out of Range Low", "In Range" or "Out of Range High".



IP44-Rated ZPM Unit

An IP44-rated version of the ZPM pressure sensor is also available.



Ranges and outputs can be set easily without powering the unit. Just open the hinged cover.



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

Accuracy: $\pm 0.25\%$ FS at 22°C for All Units

Low Range Unit: ± 1.24 Pa
Standard Range Unit: ± 6.22 Pa
High Range Unit: ± 18.66 Pa

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

Overpressure:

Low Range: 67 kPa
Standard Range: 74 kPa
High Range: 87 kPa

Media: Clean, dry, non-corrosive gases

Compensated Temperature Range:
0 to 50°C

Environmental Operating Range:
-20 to 60°C

Storage Temperature:
-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

Agency:

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

Ordering Information - All Units have field selectable outputs and Ranges

Part Number and Description

BA/ZPM-LR-ST-D-BB

ZPM in a BAPI-Box Pressure Sensor: Low Range, with Static Pressure Tube, Display, IP66

BA/ZPM-LR-AT-D-BB

ZPM in a BAPI-Box Pressure Sensor: Low Range, with Attached Static Pressure Tube, Display, IP66

BA/ZPM-SR-ST-D-BB

ZPM in a BAPI-Box Pressure Sensor: Standard Range, with Static Pressure Tube, Display, IP66

BA/ZPM-SR-AT-D-BB

ZPM in a BAPI-Box Pressure Sensor: Standard Range, with Attached Static Pressure Tube, Display, IP66

BA/ZPM-HR-ST-D-BB

ZPM in a BAPI-Box Pressure Sensor: High Range, with Static Pressure Tube, Display, IP66

BA/ZPM-HR-AT-D-BB

ZPM in a BAPI-Box Pressure Sensor: High Range, with Attached Static Pressure Tube, Display, IP66

BA/ZPM-LR-ST-ND-BB

ZPM in a BAPI-Box Pressure Sensor: Low Range, with Static Pressure Tube, No Display, IP66

BA/ZPM-SR-ST-ND-BB

ZPM in a BAPI-Box Pressure Sensor: Standard Range, with Static Pressure Tube, No Display, IP66

BA/ZPM-HR-ST-ND-BB

ZPM in a BAPI-Box Pressure Sensor: High Range, with Static Pressure Tube, No Display, IP66

Field Selectable Ranges and Outputs and Dimensions

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 |

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

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 |

