

ZONE PRESSURE MULTI SENSOR (ZPM)

Standard, Low and High Ranges

- 10 pressure ranges & 5 output options – all field selectable
- Standard, low and high range units
- Ranges and outputs can be set without power

BAPI's Zone Pressure Multi-Sensor is the most flexible pressure sensor on the market. Output, range, units, direction, and response time are quickly set in the field with no tools, no power and no small components.

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".



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 V Output)
13 to 40 VDC or 18 to 32 VAC (0 to 10 or 2 to 10 V Output)

POWER CONSUMPTION:

20 mA max, DC only at 4 to 20 mA Output
4.9 mA max DC at 0 to 5 VDC or 0 to 10 VDC Output
0.12 VA max AC at 0 to 5 VDC or 0 to 10 VDC Output

LOAD RESISTANCE:

4 to 20 mA Output 850 Ω Maximum @ 24 VDC
0 to 5 V or 0 to 10 V output 6K to 10K Ω minimum

STABILITY:

$\pm 0.25\%$ Full Scale per year

ENVIRONMENTAL OPERATION RANGE:

-20 to 60°C

STORAGE TEMPERATURE:

-40 to 95°C

OVERPRESSURE:

Proof: 75 KPa, Burst: 128 KPa

HUMIDITY:

0 to 95% RH, non-condensing

WIRING:

2 wires (4 to 20mA Current loop)*
3 wires (AC or DC powered, Voltage out)*

PORT SIZE:

6 mm tubing (3 mm to 4 mm I.D.)

ENCLOSURE MATERIAL:

UV-resistant Polycarbonate

ACCURACY FOR STANDARD PRESSURE RANGES AT 22°C:

$\pm 0.25\%$ of range

ACCURACY FOR LOW PRESSURE RANGES AT 22°C:

$\pm 0.5\%$ of range for the three lowest unidirectional and bidirectional ranges
 $\pm 0.25\%$ of range all other ranges

ACCURACY FOR HIGH PRESSURE RANGES AT 22°C:

$\pm 0.25\%$ on all ranges

TEMPERATURE ERROR LOW RANGE:

0.07% Full Scale/°C (± 250 Pascals @ -20 to 60°C)

TEMPERATURE ERROR STANDARD RANGE:

0.02% Full Scale/°C (± 1250 Pascals @ -20 to 60°C)

TEMPERATURE ERROR HIGH RANGE:

0.025% Full Scale/°C (0 to 7500 Pascals @ -20 to 60°C)

*BAPI recommends that you do not run wiring for room units in the same conduit as line voltage wiring or with wiring used to supply highly inductive loads such as motors, generators and coils. Also, these units are not designed for line voltage applications.

ORDERING

PART NUMBER:	DESCRIPTION:
BA/ZPM-LR-ST-D	Low Range, -250 to 250Pa with Static Pressure Tube, Display, Field Selectable Ranges and Outputs
BA/ZPM-LR-AT-D	Low Range, -250 to 250Pa with Attached Static Pressure Tube, Display, Field Selectable Ranges and Outputs
BA/ZPM-SR-ST-D	Standard Range, -1250 to 1250Pa with Static Pressure Tube, Display, Field Selectable Ranges and Outputs
BA/ZPM-SR-AT-D	Standard Range, -1250 to 1250Pa with Attached Static Pressure Tube, Display, Field Selectable Ranges and Outputs
BA/ZPM-HR-ST-D	High Range, 0 to 7400Pa with Static Pressure Tube, Display, Field Selectable Ranges and Outputs
BA/ZPM-HR-AT-D	High Range, 0 to 7400Pa with Attached Static Pressure Tube, Display, Field Selectable Ranges and Outputs
BA/ZPM-LR-ST-ND	Low Range, -250 to 250Pa with Static Pressure Tube, No Display, Field Selectable Ranges and Outputs
BA/ZPM-SR-ST-ND	Standard Range, -1250 to 1250Pa with Static Pressure Tube, No Display, Field Selectable Ranges and Outputs
BA/ZPM-HR-ST-ND	High Range, 0 to 7400Pa with Static Pressure Tube, No Display, Field Selectable Ranges and Outputs