



Excellent performance at a low cost price with 0.4% accuracy in a wide variety of rated pressures from vacuum to 5,000 PSI

All stainless steel housing and wetted materials ensure maximum media compatibility enabling a long service life in harsh environments



Six electrical connections and five process connection options enable the pressure transducer to be configured to meet your needs

We make things MOVE

Pressure Sensor - BPT Analog Pressure Transducer Series

The **NEW** BPT Analog Pressure Transducer Series from Bimba expands Bimba's current line of pressure measurement solutions. This all stainless steel analog pressure transducer converts the media pressure into an analog electrical signal with either a current or voltage output.

This new BPT Analog Pressure Transducer Series can be used in a wide range of applications primarily including the following industries: industrial process control systems, hydraulic and pneumatic systems, food and beverage, pumps and compressors, energy and water management, construction, and agricultural equipment industries.

Features and Benefits

- > All stainless steel housing and wetted components
 - Robust design with complete isolation of the sensing element from the media.
 - Protection from harmful chemicals, dust, and other materials that could cause failure to the device.
- > Affordable, cost-effective solution with the ability to be configured:
 - 2,880 total configurations available to meet your specific application
 - 17 common stocked configurations available for quick, reliable delivery
- > Variety of pressure ranges from vacuum to 5,000 PSI
- > Compact in size providing long term stability with an easy, simple installation

Bimba is part of

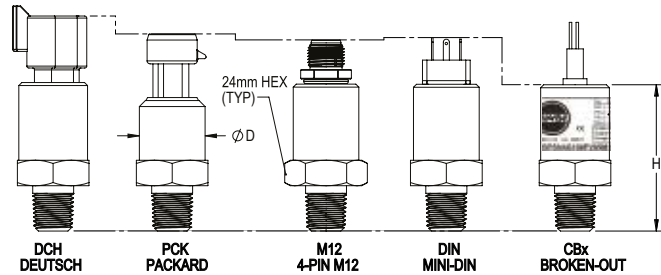
IMI Precision
Engineering

Performance Specifications

- > Performance @25 C (77°F)
 - Accuracy 0.4% FS, BFSL
 - Thermal Error 1% FS
 - Total Error 1.4% FS
 - Long Term Stability 0.2% FS
 - Zero and Span Offset Tolerances 1.5%
- > Operating Conditions
 - Compensated Temperatures -10 to 100°C (14 to 212°F)
 - Operating Temperatures -20 to 125°C (-4 to 257°F)
- Shock 50g, 11ms, 1/2 sign
- Vibration 11g peak from 10 to 400 Hz
- Ingress Protection Rating up to IP67
- > Electrical Characteristics
 - Current consumption approx.
 - 4 mA (1-5V, 0-5V, 0.5-4.5V, 4-20mA)
 - 11 mA (0-10V)
 - 23 mA (4-20mA)
 - Supply Voltage/Output
 - 8-28 VDC (1-5V, 0-5V, 4-20mA)
 - 5 VDC (0.5-4.5V, 0.5-4.5V Ratiometric)
- 12-36 VDC (0-10V)
- > Materials
 - Housing and port 316 stainless steel
 - Wetted materials stainless steel
 - Diaphragm material
 - 316 SS <1500 PSI
 - 17-4 SS > 1500 PSI
 - No internal seals
- > Proof Pressure = 3x rated pressure
- > Burst Pressure = 4x rated pressure
- > Fatigue Life > 4,000,000 cycles

Dimensions

| Connector | H inch [mm] | | | | |
|-----------|-----------------|----------|----------|----------|----------|
| | Port Order Code | | | | |
| | G4 | N4 | N8 | R4 | U7 |
| CBx | 1.8 [46] | 1.9 [49] | 1.9 [47] | 1.9 [49] | 1.8 [45] |
| DCH | 2.7 [69] | 2.8 [72] | 2.8 [70] | 2.8 [72] | 2.7 [68] |
| DIN | 2.4 [62] | 2.6 [65] | 2.5 [63] | 2.6 [65] | 2.4 [61] |
| M12 | 2.4 [61] | 2.5 [64] | 2.4 [62] | 2.5 [64] | 2.4 [60] |
| PCK | 2.5 [63] | 2.6 [66] | 2.5 [64] | 2.6 [66] | 2.4 [62] |



Ordering Information

BPTN4V085PV15M12

| Series | Port Size | Rated Pressure | Units | Output Signal | Connector* |
|--------|-------------------|----------------|-------|--------------------------------|-------------------|
| BPT | N4 1/4" NPT Male | V000 Vac ~ 0 | P PSI | C20 Current 4 to 20ma | M12 4 Pin M12 |
| | N8 1/8" NPT Male | V015 Vac ~ 15 | | V05 0 to 5 VDC | DCH 3 Pin Deutsch |
| | U7 7/16" UNF Male | V045 Vac ~ 45 | | V10 0 to 10 VDC | PCK Packard |
| | G4 G 1/4" Male | V085 Vac ~ 85 | | V15 1 to 5 VDC | DIN Mini DIN |
| | R4 R 1/4" Male | V135 Vac ~ 135 | | V45 0.5 to 4.5 VDC | CB2 2m Cable |
| | | V185 Vac ~ 185 | | R45 0.5 to 4.5 VDC Ratiometric | CB5 5m Cable |
| | | V285 Vac ~ 285 | | | |
| | | G015 0 ~ 15 | | | |
| | | G025 0 ~ 25 | | | |
| | | G050 0 ~ 50 | | | |
| | | G100 0 ~ 100 | | | |
| | | G250 0 ~ 250 | | | |
| | | G500 0 ~ 500 | | | |
| | | G01K 0 ~ 1000 | | | |
| | | G03K 0 ~ 3000 | | | |
| | | G05K 0 ~ 5000 | | | |

* Shield cables are recommended for best performance



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