

APPLICATIONS

- DEPTH SENSING
- WATER RESOURCE MANAGEMENT
- PROCESS CONTROL
- MARINE INSTRUMENTATION
- CHEMICAL MANUFACTURE
- PAINT SPRAYING
- TANK/LIQUID LEVEL

MODEL BL • PRESSURE TRANSDUCER

The BL pressure transmitter has a conventional 4-20 mA output and is available with accuracies to 0.25%. The BL is approved for Factory Mutual as an intrinsically safe device for use in hazardous areas. Rated for Class 1, Div. 1 groups H through G.*

All BL's with absolute ranges and all BL's over 50 psi are hermetically sealed. The pressure sensitive diaphragm is either 316L or 15-5 stainless steel, depending on the pressure range selected.

The BL's flush diaphragm is especially suited to measuring viscous fluids, slurries, and media where system flushing is necessary. Its overall price/performance ratio makes it ideal for many process environments.

**When used with approved barriers.*



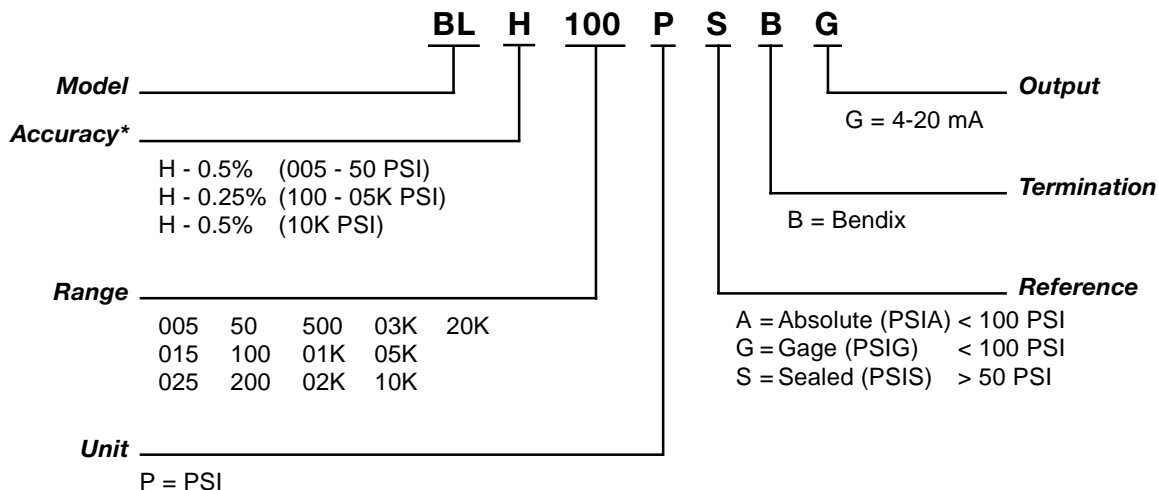
FEATURES

- Accuracies to 0.25%
- Flush diaphragm
- 0-5 to 0-20,000 PSI ranges
- Absolute models available
- I/S certified when used with appropriate barriers

BENEFITS

- For critical applications
- Easily cleaned/adaptable
- Wide range application
- Can measure vacuum

HOW TO ORDER



Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.
 * Note: No character represents 1% accuracy.

TECHNICAL SPECIFICATIONS

RANGE

0-5, 15, 25 50 PSIG or PSIA
(0-.3, 1, 2, 3.5 BAR G or BAR A)

0-100, 200, 500, 1000, 2000, 3000, 5000 PSIS
(0-7, 14, 35, 70, 138, 207, 345 BAR S)

0-10,000, 20,000 PSIS
(0-689, 1380 BAR S)
(bar values approximate)

PHYSICAL

| | |
|-----------------------------------|---|
| Proof Pressure | 2 x rated range without damage 30,000 psi (2068 BAR) maximum |
| Burst Pressure | 5 x rated range without bursting 50,000 psi (3448 BAR) maximum |
| Material in Contact With Media | 316L SS < 100 PSI 15-5 PH SS > 50 PSI |
| Shock Resistance | 50 g's peak (11 milliseconds) |
| Vibration Resistance | Meets MIL-STD 810C, Figure 514-4, Curve AH, Time Schedule II Random Vibration Test (Overall g rms = 11.9 minimum) |
| Weight | Less than 2.5 oz (70 gm) without adapter or mating connector |

ELECTRICAL

| | |
|-----------------------------|---|
| Span | 16 ±0.16 mA into 0-1200 ohm loop resistance at 77° F (25° C) |
| Excitation Voltage | 12 to 36 Vdc |
| Null Offset | 4 ±0.4 mA at 77°F (25°C) |
| Reverse Polarity Protection | YES |
| Insulation Resistance | Greater than 1000 megohms at 25 Vdc |
| Electrical Connection | 6 pin PTIH-10-6P or equivalent. (Mating Connector is PT06E-10-6S; Honeywell P/N MS20455A01) Not included. |

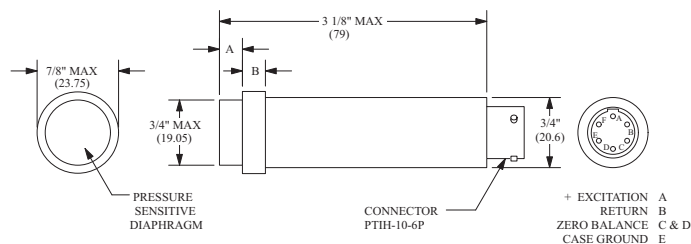
PERFORMANCE

| | |
|----------------------------------|---|
| Accuracy | ±1% from best fit straight line including effects of non-linearity, hysteresis, and repeatability. Unless otherwise specified by order guide. |
| Operating Temperature Range | -40° to 180°F (-40° to 82°C) |
| Compensated Temperature Range | 30° to 130°F (-1° to 54°C) |
| Thermal Effect On Zero | Less than ±2% span within compensated range H version is ±1% span |
| Thermal Effect On Span | Less than ±1% within compensated range |

NOTE: All specifications are measured at 25° C and rated excitation unless otherwise specified.

DIMENSIONS

xx.xx = inches
(xx.x) = mm



PRESSURE RANGE (PSI)

| Pressure Range (PSI) | Dim. A MAX | | Dim. B | |
|----------------------|------------|-------|--------|-------|
| 0-5 | .271 | (6.9) | .25 | (6.4) |
| 1-15 to 0-50 | .232 | (5.9) | .25 | (6.4) |
| 0-100 to 0-200 | .238 | (6.1) | .25 | (6.4) |
| 0-500 to 0-1000 | .238 | (6.1) | .19 | (4.8) |
| 0-2000 to 0-5000 | .273 | (6.9) | .19 | (4.8) |
| 0-10000 to 0-15000 | .287 | (7.3) | .19 | (4.8) |
| 0-20000 | .285 | (7.5) | .19 | (4.8) |

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

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Honeywell

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