

APPLICATIONS

- RESPIRATORS
- FIRE FIGHTING EQUIPMENT
- DRILLING MUD DENSITY
- KIDNEY DIALYSIS MACHINES
- HYDRAULIC SERVO VALVES
- GAS MONITORING
- TRANSIT VEHICLE BRAKING SYSTEMS
- AIRCRAFT HYDRAULICS
- DIESEL GENERATORS

MODEL AB/HP • FLUSH MOUNT GENERAL PURPOSE, HIGH PRESSURE TRANSDUCER

The AB is ideal for a wide range of applications. That's because it has a variety of mounting options, stainless steel construction, and wide pressure ranges. In addition, the AB has two thermally matched strain gages, and it is fully compensated and calibrated. Its output is a stable 0-100 mV from an excitation of 5 Vdc.

The AB may be flush-mounted or fitted with an external adapter. It also may be fitted with an optional integral connector or waterproof cable fitting. The flush mounting capability allows it to be used in applications where sanitary or cleaning requirements exclude using pressure ports.



AB/HP SERIES

FLUSH MOUNT GENERAL PURPOSE, HIGH PRESSURE TRANSDUCER

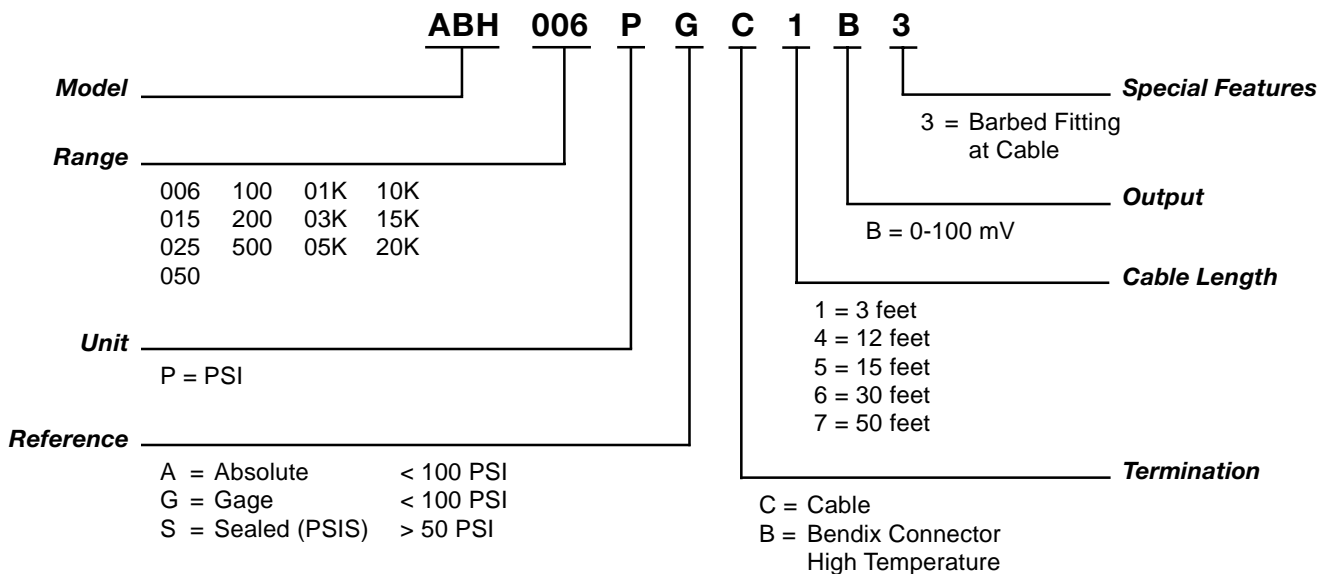
FEATURES

- Flush mount option
- 0-6 to 0-20,000 PSI ranges
- Custom designs available
- PSIA and bi-directional models

BENEFITS

- Permits maximum cleanliness
- Wide range of applications
- Adaptable to special needs
- Measures vacuum referenced to absolute or atmospheric pressures

HOW TO ORDER



Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.

TECHNICAL SPECIFICATIONS

RANGES

0-6, 15, 25, 50 PSIG or PSIA
 0-100, 200, 500, 1000, 2000, 3000, 5000 PSIS
 0-10,000, 15,000, 20,000 PSIS

PHYSICAL

Proof Pressure 2 X rated range 30,000 PSIS (2068 B) max.
 Burst Pressure 5 X rated range 50,000 PSI (3448 B) max.
 Material in Contact with Media <100 PSI 316L SS
 ≥100 PSI 15-5 PH SS
 Shock 50 g's peak (11 milliseconds)
 Vibration Meets Mil-STD-810-C, Figure 514.2-5, Curve AP, 46.3 g rms min.
 Weight 2 oz (57 gm) less cable and adapter

ELECTRICAL

Full Scale Output 100 ± 1 mV at rated excitation @ 25°C
 Zero Output 0.0 ± 5.0 mV @ 25°C
 Excitation 5.0 Vdc recommended, 6.0 Vdc max.
 Input Impedance 150 ± 50 Ω
 Output Impedance 115 ± 25 Ω
 Insulation Resistance 1000 MΩ @ 50 VDC max.
 Electrical Connection 4 Conductor, shielded cable 3 ft (0.91 m) long

PERFORMANCE

Accuracy* 0.25% FSO from best fit straight line including effects of nonlinearity, hysteresis and nonrepeatability
 Operating Temperature Range -54° to 93°C (-65° to 200°F)
 with Bendix Connector Option
 Compensated Temperature Range -1° to 71°C (30° to 160°F)
 Thermal Effect on Zero Less than ±1% FSO per 100°F within compensated temperature range
 Thermal Effect on Full Scale Output Less than ±1% per 100°F within compensated temperature range

Note: All specifications are measured at 25°C and rated excitation unless otherwise stated.

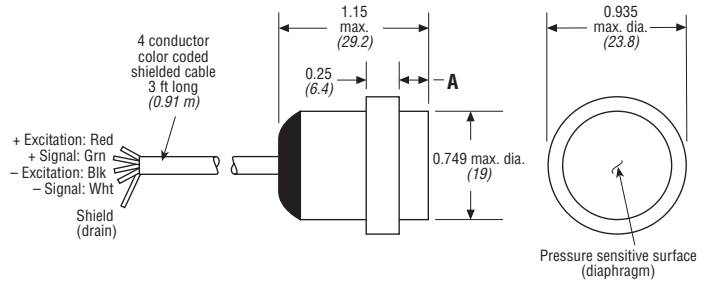
Note: For mounting devices, contact factory.

Note: External O-ring included.

*0.5% Accuracy for <50 PSI and ≥10,000 PSI Units, 1% Accuracy for 20000 PSI Units.

DIMENSIONS

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



| Pressure Ranges (PSI) | Dim. A MAX | |
|-----------------------|------------|-------|
| 0-6 | 0.271 | (6.9) |
| 0-15 to 0-50 | 0.232 | (5.9) |
| 0-100 to 0-1000 | 0.238 | (6.1) |
| 0-2000 to 0-5000 | 0.273 | (6.9) |
| 0-10000 to 0-15000 | 0.287 | (7.3) |
| 0-20000 | 0.295 | (7.5) |

PIN AND WIRE CODES

(Pin codes are for optional bendix connector)

| Pin Code | Wire Color Code | Function |
|----------|-----------------|--------------|
| A | Red | + Excitation |
| B | Green | + Signal |
| C | White | - Signal |
| D | Black | - Excitation |

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.

Item # 1075700 M.G. 3/01 Rev. A

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