

**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.

**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**

<b>Model</b> _____	<b>ABH</b>	<b>006</b>	<b>P</b>	<b>G</b>	<b>C</b>	<b>1</b>	<b>B</b>	<b>3</b>	<b>Special Features</b>	
<b>Range</b> _____								3 = Barbed Fitting at Cable		
006 100 01K 10K	015 200 03K 15K	025 500 05K 20K	050							
<b>Unit</b> _____								<b>Output</b>		
P = PSI								B = 0-100 mV		
<b>Reference</b> _____								<b>Cable Length</b>		
A = Absolute	< 100 PSI							1 = 3 feet		
G = Gage	< 100 PSI							4 = 12 feet		
S = Sealed (PSIS)	> 50 PSI							5 = 15 feet		
								6 = 30 feet		
								7 = 50 feet		
								<b>Termination</b>		
								C = Cable		
								B = Bendix Connector		
								High Temperature		

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 <100 PSI 316L SS  
 with Media ≥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  $100 \pm 1$  mV at rated excitation @  $25^\circ\text{C}$

Zero Output  $0.0 \pm 5.0$  mV @  $25^\circ\text{C}$

Excitation 5.0 Vdc recommended, 6.0 Vdc max.

Input Impedance  $150 \pm 50 \Omega$

Output Impedance  $115 \pm 25 \Omega$

Insulation Resistance  $1000 \text{ M}\Omega$  @ 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 -54° to 93°C (-65° to 200°F)  
 Temperature Range -54° to 149°C (-65° to 300°F)  
 with Bendix Connector Option

Compensated -1° to 71°C (30° to 160°F)  
 Temperatute Range

Thermal Less than  $\pm 1\%$  FSO per 100°F within  
 Effect on Zero compensated temperature range

Thermal Effect Less than  $\pm 1\%$  per 100°F within  
 on Full Scale Output compensated temperature range

*Note: All specifications are measured at  $25^\circ\text{C}$  and rated excitation unless otherwise stated.*

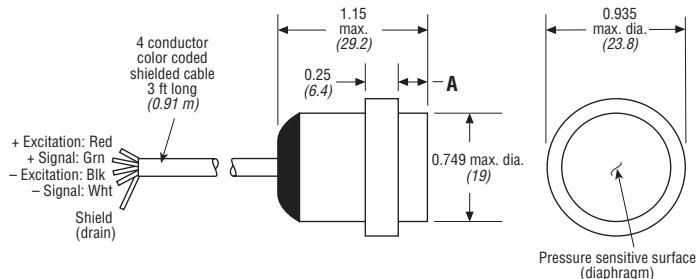
*Note: For mounting devices, contact factory.*

*Note: External O-ring included.*

\*0.5% Accuracy for <50 PSI and  $\geq 10,000$  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.

