# Honeywell

#### **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.



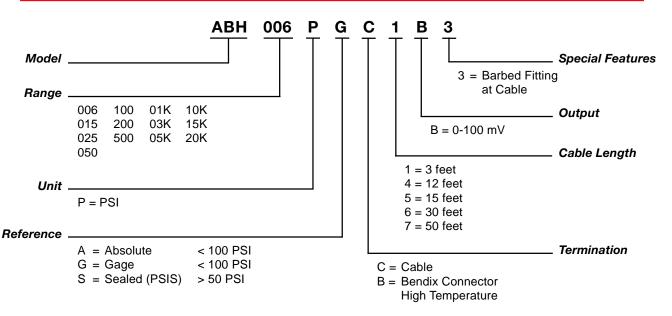
## **FEATURES**

- 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



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	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 $\pm$ 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 Impedience	$150\pm50~\Omega$		
Output Impedience	115 $\pm$ 25 $\Omega$		
Insulation Resistance	e 1000 MΩ @ 50 VDC max.		
Electrical Connectior	h 4 Conductor, shielded cable 3 ft (0.91 m) long		
PERFORMANCE			
,	0.25% FSO from best fit straight line including sts of nonlinearity, hysteresis and nonrepeatability		
Operating Temperature Range	-54° to 93°C (-65° to 200°F) -54° to 149°C (-65° to 300°F)		

Temperature Range	-54° to 149°C (-65° to 300°F)		
	with Bendix Connector Option		
Compensated Temperatrue Range	-1° to 71°C (30° to 160°F)		
Thermal Effect on Zero	Less than $\pm 1\%$ FSO per 100°F within compensated temperature range		
Thermal Effect on Full Scale Output	Less than $\pm 1\%$ 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.

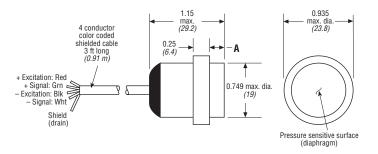
Note: External O-ring included.

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

## DIMENSIONS



(xx.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
А	Red	+ Excitation
В	Green	+ Signal
С	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.

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