

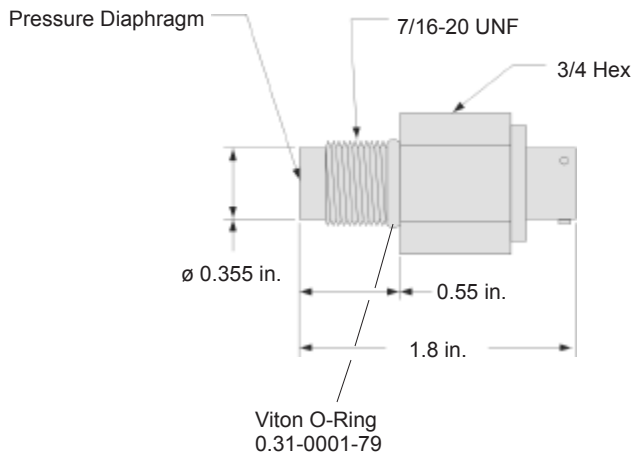
Model A-105 Flush Diaphragm Pressure Transducer

Order Code AP311

- 100 to 15,000 psig
- Flush Mount Design
- Miniature Footprint
- Stainless Steel



Dimensions



Wiring Code

Connector/ Unamplified

A	(+) Excitation
B	(+) Excitation
C	(-) Excitation
D	(-) Excitation
E	(-) Output
F	(+) Output

Performance

Pressure Ranges.....	100; 150; 200; 300; 500; 750; 1000; 1500; 2000; 3000; 5000;7500; 10,000; 15,000 psig
Accuracy (note 6).....	0.5% Full Scale
Non-Linearity and Hysteresis.....	+/-0.5% Full Scale
Non-Repeatability.....	+/-0.1% Full Scale
Output.....	2 mV/V nominal
Resolution.....	Infinite

Environmental

Temperature, Operating.....	-65° to 300°F
Temperature, Compensated.....	60° to 160°F
Temperature, Effect	
Zero.....	0.01% Full scale/ °F
Span.....	0.02% Reading/ °F

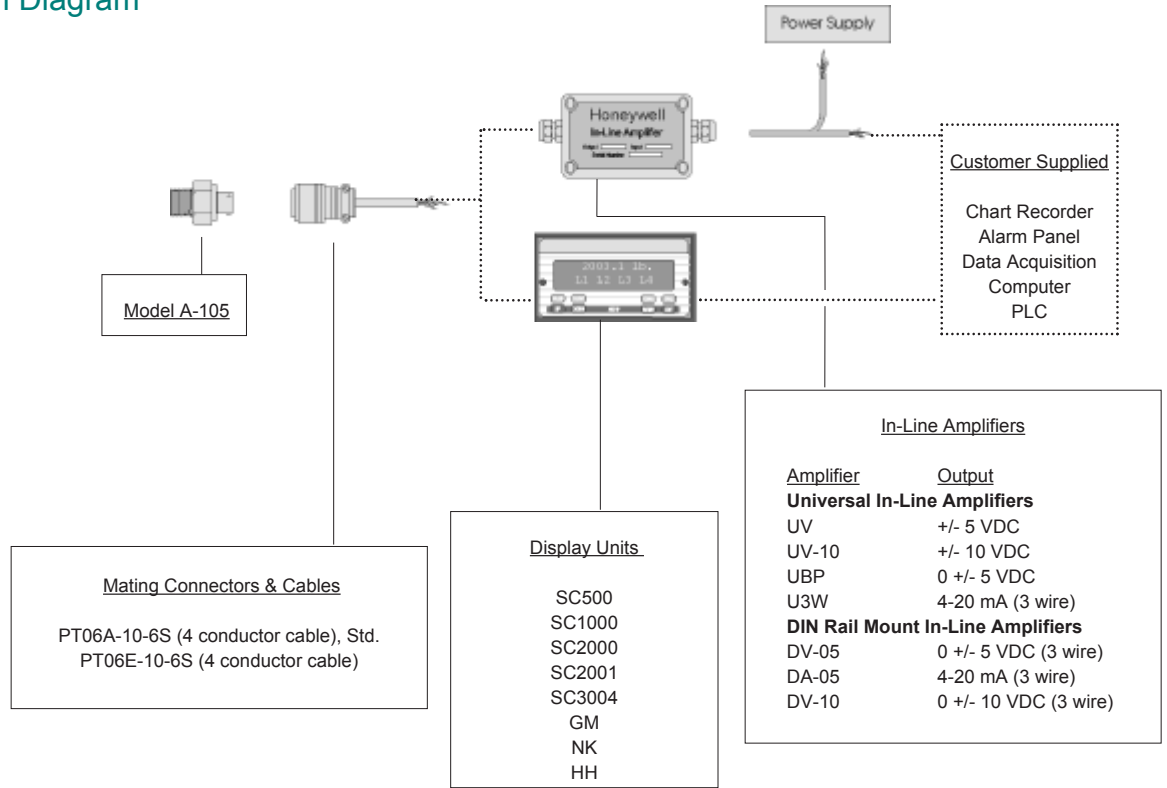
Electrical

Strain Gage Type.....	Bonded foil
Excitation (calibration).....	5 VDC
Excitation (acceptable).....	Up to 5 VDC or AC
Insulation Resistance.....	5000 Megohms @50 VDC
Bridge Resistance.....	350 Ohms
Shunt Calibration Data.....	Included
Electrical Termination (std).....	PTIH-10-6P or equivalent (Hermetic)
Mating Connector (not incl.).....	PT06-10-6S or equivalent (AA111)

Mechanical

Media.....	Gases, Liquids compatible with wetted parts
Overload-Safe.....	50% over capacity
Proof Pressure.....	400% (Max. 25 kpsi)
Dead Volume.....	Flush Diaphragm
Wetted Parts Material.....	17-4 PH Stainless Steel
Weight.....	2 oz
Case Material.....	Stainless Steel

Typical System Diagram



Options

	Same Day Ship	Fast Track Manufacture	Built to Order	Built from Scratch
Pressure Ranges	200; 500; 1000; 2000; 3000; 5000; 10,000 psig	150; 300; 750; 1500; 7500 psig	100 psig	15,000 psig
Temperature Compensation	1a. 60° to 160° F	1b. 30° to 130° F 1c. 0° to 185° F 1d. -20° to 130° F 1e. -20° to 200° F 1f. 70° to 250° F 1i. -65° to 250° F	1g. 70° to 325° F 1h. 70° to 400° F	
Internal Amplifiers	2u. Unamplified, mV/V output			
Pressure Ports	5d. 7/16-20 UNF Male	5p. M12 x 1.5 Male		
Electrical Termination	6a. Bendix PTIH-10-6P-(or equiv.) 6 pin (max. 250°F)		6e. Integral cable: Teflon (-65° to 475°F) 6h. Integral cable: Silicone (-65° to 300°F) 6i. Integral underwater cable (max. 180°F) (note 1) 6v. Phoenix connector on end of cable	
Special Calibration (note 3)		9a. 10 point (5 up/ 5 down) 20% increments @ 70°F (note 3) 9b. 20 point (10 up/ 10 down) 10% increments @ 70°F (note 3)		
Wetted Diaphragm				10c. Hastelloy C 10e. Inconel X-750
Shock & Vibration		44a. Shock and vibration resistance		

■ Supplied as standard

Model A105

Range Codes

<u>Range</u>	<u>Range Code</u>
100 psi	BR
150 psi	CJ
200 psi	CL
300 psi	CP
500 psi	CR
750 psi	CT
1,000 psi	CV
1,500 psi	DJ
2,000 psi	DL
3,000 psi	DN
5,000 psi	DR
7,500 psi	DT
10,000 psi	DV
15,000 psi	EJ

Notes

1. Not available with option 1c.
2. G=Green; B=Blue; W=White; Bl=Black; Br=Brown; Y=Yellow; R=Red; O=Orange. Color specifying cable and number or letter specifying connector
3. Availability varies with range.
4. No mating connector necessary with cable option.
5. Not available with temperatures below -20°F or above 185°F.
6. Accuracies stated are expected for Best Fit Straight Line for all errors, including linearity, hysteresis & non-repeatability thru zero.

Special Customer Requirements (Consult Factory)

Different electrical connectors
Different materials
Different threads
O ring material
O₂ Clean
Operational temperature -320° to 400° F
Radiation proof
Special temperature compensation
Temperature and pressure calibration

How to Order

Combine the order code, the range code and the options code.

Sample Code: **AP311** **BJ** **1b**
Order Code Range Code Options Code