

Flush Diaphragm Pressure Transducers

Model A-105 and A-205

UNITIZED FLUSH DIAPHRAGM

15 TO 15,000 PSI

STAINLESS STEEL



Model A-105

Model A-205

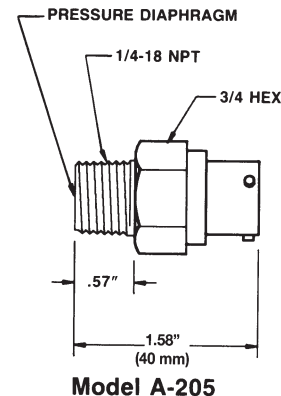
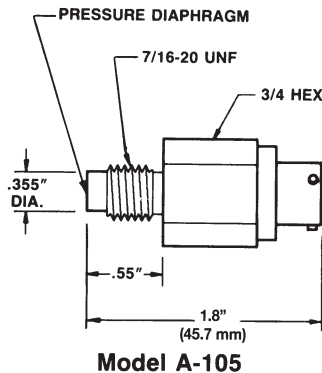
Models A-105, A-205 Subminiature Pressure Transducers are manufactured with a unitized stainless steel diaphragm. The advantage of this type of design is that a thin diaphragm and heavy sidewalls are made from one piece of stainless steel. This unitized diaphragm is rugged, but at the same time can be made thin enough to measure low pressures. Available pressure ranges span from 15 to 15,000 psi. These models can be used in corrosive fluid environments. Models A-105 and A-205 have welded stainless steel electrical connectors as an integral part of the transducer body. A-105's and A-205's are recommended for applications involving rough handling or where a completely hermetically sealed transducer is required.

Dimensions

Model A-105 (Order Code AP311)
Model A-205 (Order Code BP312)

Available Ranges* (All Models)
15; 25; 50; 75; 100; 150; 200; 300; 500; 750; 1000;
1500; 2000; 3000; 5000; 7500; 10,000; 15,000 psi

*Stocked ranges (in bold) for Models A-105 only.



Options (See Appendix)

Temperature compensated 1b, 1c, 1f

Premium Options: 1d, 1e, 1g, 1h, 1i

Accessories: Mating connectors and connector/cable assemblies

1-888-282-9891

Honeywell
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	Models	Pressure Threads
	A-105 Order Code AP311	7/16-20 UNF
	A-205 Order Code BP312	1/4-18 NPT
	Low Pressure Ranges	High Pressure Ranges
PERFORMANCE	Pressure Ranges.....	<100 psi (1 bar to 7 bar) 100 to 15,000 psi (10 bar to 1000 bar)
	Non-Linearity and Hysteresis (max)*	1% F.S. + /-0.5% F.S.
	Non-repeatability (max)*	1% F.S. + /-0.1% F.S.
	Output (standard)*1mV/psi (@ 5VDC) 2mV/V
	Resolution	Infinite Infinite
ENVIRONMENTAL	Temperature, Operating	-65° to 300° F (-54° to 150° C) -65° to 300° F (-54° to 150° C)
	Temperature, Compensated	60° to 160° F (15° to 71° C) 60° to 160° F (15° to 71° C)
	Temperature Effect	
	-Zero (max)*	0.001mV/° F (0.0018mV/° C) 0.01% F.S./° F (0.018% F.S./° C)
	-Span (max)*	0.002mV/° F (0.0036mV/° C) 0.02% Rdg./° F (0.036% Rdg./° C)
ELECTRICAL	Strain Gage Type	Bonded foil Bonded foil
	Excitation (calibration)	5VDC 5VDC
	Excitation (acceptable)	Up to 5VDC or AC Up to 5VDC or AC
	Insulation Resistance	5000 megohm @ 50VDC 5000 megohm @ 50VDC
	Bridge Resistance	350 ohms 350 ohms
	Shunt Calibration Data	Included Included
	Wiring Code (std)	
	A-105/A-205	#2 (See Pg. AP-8) #2 (See Pg. AP-8)
	Electrical Termination (std)	
	A-105/A-205	PTIH-10-6P or equiv. PTIH-10-6P or equiv.
	(Hermetic stainless)	(Hermetic stainless)
	Mating Connector (not incl.)	
	A-105/A-205	PT06A-10-6S or equiv. PT06A-10-6S or equiv.
MECHANICAL	Media	Gas, Liquid Gas, Liquid
	Overload-Safe	100% over capacity 50% over capacity
	Overload-Burst	400% over capacity 400% over capacity
	Pressure Port	
	A-105	7/16-20 UNF male 7/16-20 UNF male
	A-205	1/4-18 NPT male 1/4-18 NPT male
	Dead Volume	Flush diaphragm Flush diaphragm
	Wetted Parts Material	17-4 PH Stainless 17-4 PH Stainless
	Type	Gage Gage
	Weight	1-2 oz. 1-2 oz.
	Case Material	17-4 PH Stainless 17-4 PH Stainless
IN-LINE AMPLIFIERS	Outputs Available	0-5VDC, 4-20mA (≥50 psi) 0-5VDC, 4-20mA
		0-1VDC (<50 psi)

NOTES *Unit of measure in specifications is different for low ranges than high ranges.

General Information

How to order (See Pg. AP-19)
Gage/Absolute pressure selection flow chart (See Pg. PR-1)

●お問い合わせは下記へ—

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