Subminiature, Flush Diaphragm Pressure Transducers

Models G & F

10 TO 20,000 psi

FLUSH DIAPHRAGM

HIGH FREQUENCY





Model G

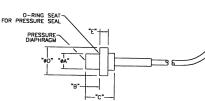
Model F

SENSOTEC products include a full line of subminiature pressure transducers to accurately measure pressure ranges from 10 psi to 20,000 psi. These subminiature pressure transducers have a high natural frequency and utilize a flush diaphragm. The specifications listed below are classified by high pressure ranges or low pressure ranges, and by foil gages (350 ohms) or semiconductor gages (500 ohms).

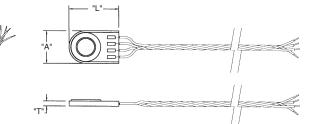
Temperature compensation is accomplished by using temperature sensitive components located inside the transducers. These transducers have a small electrical zero balance circuit board which is in the lead wire (approximately 1" X .087" thick). This balance board does not have to be the same temperature as the transducer. The application should dictate the type of strain gage utilized. Generally, the semiconductors are used when high output (30 mv/v) is required; and foil strain gages are used when longer term very high stability and excellent thermal characteristics are required. All units have four (4) active bonded strain gages arranged in a Wheatstone bridge configuration.

Most SENSOTEC subminiature 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 it is thin enough to measure low pressures.

Dimensions







Model F

Model G Order Code BP386 BP387	Available Ranges 150-15,000 psi 150-20,000 psi	A" .310 .375	B" .15 .15	C" .47 .47	D" .44 .50	E' .15 .15	Diaphragm Welded Welded
Model F Order Code BP340 FOIL BP341 FOIL BP342 FOIL BP343 SEMIC BP345 SEMIC BP346 SEMIC	15 150 150 0NDUCTOR 15 0NDUCTOR 10 0NDUCTOR 10	able Ranges 0-500 PSI)-3000 PSI)-3000 PSI 0-500 PSI)-500 PSI -3000 PSI -3000 PSI	5	A" .275 .320 .425 .150 .275 .320 .425	T" .042* .042* .060 .042 .042 .042 .042 .060	L" .38 .50 .56 .38 .38 .50 .56	

* Nominal

Note: All Model F's have a cemented diaphragm.

Honeywe Sensotec Sensors

1-888-282-9891

	High Pressure Ranges	Foil Gages (350 ohms)	
PERFORMANCE	Pressure Ranges Non-Linearity and Hysteresis (max) Non-repeatability (max) Output (standard) Resolution	150 to 20,000 psi 1.0% F.S. ±0.1% F.S. 2mV/V Infinite	
ENVIRONMENTAL	Temperature, Operating Temperature, Compensated Temperature Effect –Zero (max) –Span (max)	-65° to 300° F 60° to 160° F .01% F.S./° F .02% Rdg./° F	
ELECTRICAL	Strain Gage Type Excitation (calibration) Bridge Resistance Wiring Code (std) Electrical Termination (std)	Bonded foil 5VDC 350 ohms #1 (See Pg. AP-8) 4 twisted leads (5 ft.)	
MECHANICAL	Media Overload-Safe Wetted Parts Material Type Case Material Low Pressure Ranges	Gas, Liquid 50% over capacity 17-4 PH Stainless Gage 17-4 PH Stainless Semiconductor Gages (500 ohms)	
PERFORMANCE	Pressure Ranges Non-Linearity and Hysteresis (max) Non-repeatability (max) Output (standard) Resolution	10 to 100 psi ±0.5mV ±0.1mV 2-5mV/psi (@ 5VDC) Infinite	
ENVIRONMENTAL	Temperature, Operating Temperature, Compensated Temperature Effect –Zero (max) –Span (max)	-65° to 300° F 60° to 160° F .02mv/ ° F .03mv/ ° F	
ELECTRICAL	Strain Gage Type Excitation (calibration) Bridge Resistance Wiring Code (std) Electrical Termination (std)	Bonded semiconductor 5VDC 500 ohm #1 (See Pg. AP-8) 4 twisted leads (5 ft.)	
MECHANICAL	Media Overload-Safe Wetted Parts Material Type Case Material Available Ranges (depending on model)	Gas, Liquid 100% over capacity 17-4 PH Stainless or BeCu Gage 17-4 PH Stainless	

Available Ranges (depending on model) 10; 15; 25; 50; 75; 100; 150; 200; 300; 500; 750; 1000; 1500; 2000; 3000; 5000; 7500; 10,000; 15,000; 20,000 psi

Options (See Appendix)

Temperature compensated 1b, 1c, 1f

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

Special options such as underwater cable, microtech connector, special headers and 400° F temperature are available on some ranges of the Model G. Consult factory.

Accessories: Mating connectors and connector/cable assemblies

General Information

How to order (See Pg. AP-19)

Gage/Absolute pressure selection flow chart (See Pg. PR-1)



本



■カタログに掲載してある製品の色は印刷インキの関係上、実際とは異なる場合があります。 ■ 製品のデザイン、仕様等などは、予告なく変更する場合があります。

社:〒124-0023 東京都葛飾区東新小岩3丁目9番6号 TEL: (03) 3695-5431/ FAX: (03) 3695-5698 大阪支店:〒530-0054 大阪市北区南森町2-2-9(南森町八千代ビル7F) TEL:(06)6361-4831/FAX:(06)6361-9360 e-mail: sales-tokyo@krone.co.jp URL: https://www.krone.co.jp

PRESSURE