

AVAILABLE
with Signature
Calibration
SEE PG. IN-5

Ultra Precision Gage/Absolute Pressure Transducers

Model Super TJE

0.05% ACCURACY

TRUE GAGE OR ABSOLUTE

SUPERIOR TEMP. SPECS

AMPLIFIED OUTPUT AVAILABLE



The Model Super TJE is one of the most accurate industrial pressure transducers available today. The Super TJE features 0.05% FS Accuracy and a zero temperature error of less than 0.0015% FS/°F. These specifications are maintained by welding a double jacket shell of stainless steel along with the SENSOTEC proprietary "True Gage" second diaphragm that isolates the strain gage circuitry from atmospheric contamination. High output options of 5 or 10 Vdc and 4-20 mA eliminate the need for an amplifier card in your data system. An optional internal *Signature Calibration* chip provides calibration information for automatic set up with SENSOTEC's Model SC four or twelve-channel digital indicators.

Dimensions

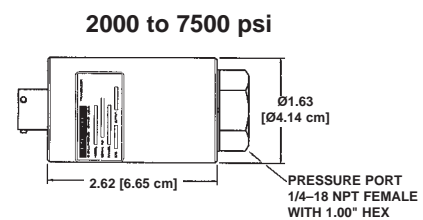
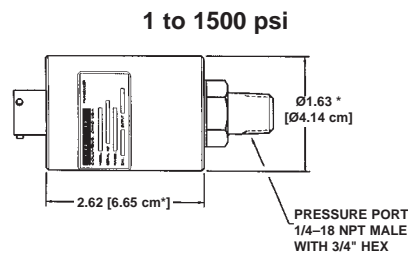
Absolute (Order Code AP112)

Available Ranges

15; 25; 50 75; 100; 150; 200; 300; 500; 750; 1000; 1500; 2000; 3000; 5000; 7500 psi

True Gage (Order Code AP111)

10; 15; 25; 50; 75; 100; 150; 200; 300; 500; 750; 1000; 1500; 2000; 3000; 5000; 7500 psi



Options (See Appendix)

Internal amps 2a, 2j; Amp enhancements 3d; Int. shunt cal 8a; Signature calibration 53e

Accessories: Mating connectors and connector/cable assemblies; Pressures port adapters

*For 10 and 15 psi (700 mbar and 1 bar) true gage models, the diameter is 2.00" (5.08 cm).

SENSOTEC

Model Super TJE

True Gage: Order Code AP111
Absolute: Order Code AP112

PERFORMANCE	Pressure Ranges.....	10 to 7,500 psi (700 mbar to 500 bar)
	Accuracy (min.)	±0.05% F.S.
	Output (standard)	2mV/V
	Resolution	Infinite
ENVIRONMENTAL	Temperature, Operating	-65° F to 250° F (-50° to 120° C)
	Temperature, Compensated	60° F to 160° F (15° to 70° C)
	Temperature Effect	
	- Zero (max.).....	0.0015% F.S./° F (0.0027% F.S./° C)
- Span (max.).....	0.0015% F.S./° F (0.0027% Rdg./° C)	
ELECTRICAL	Strain Gage Type	Bonded foil
	Excitation (calibration)	10VDC
	Excitation (acceptable)	Up to 12VDC or AC
	Insulation Resistance	5000 megohm @ 50VDC
	Bridge Resistance	350 ohms
	Shunt Calibration Data	Included
	Wiring Code (std.)	#2 (See Pg. AP-8)
	Electrical Termination (std.).....	PTIH-10-6P or equiv. (Hermetic stainless)
Mating Connector (not incl.)	PT06A-10-6S or equiv.	
MECHANICAL	Media.....	Gas Liquid
	Overload-Safe	50% over capacity
	Overload-Burst	300% over capacity
	Pressure Port	
	10 to 1500 psi	1/4-18 NPT male
	2000 to 7500 psi	1/4-18 NPT female
	Dead Volume.....	0.17 cu. in.
	Wetted Parts Material.....	17-4 PH Stainless
Type	True Gage or Absolute	
Weight	12 oz. (Nominal)	
Case Material	17-4 PH Stainless	
INTERNALLY AMPLIFIED UNITS (Optional)	Outputs Available	0-5VDC, 4-20mA
	Additional Length.....	1.12" (28.5 mm)

NOTES *Gage pressure units greater than 500 psi (35 bar) are sealed at atmospheric pressure.

General Information

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

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