



PT273, PT274, PT275A & PT276A Pressure Sensors

*HIGH ACCURACY, COMPETITIVELY
PRICED, TOP QUALITY TRANSDUCER*



Description

Dynisco's PT270 Series are precision strain gage transducers designed to meet the stringent demands of pressure measurement and control systems. In establishing design goals, a wide range of application variables, customer needs, and product costs were considered. The result- a high accuracy, competitively priced, top quality transduce. From stainless steel construction to sophisticated electronics, the PT270 series represents outstanding customer value.

Features

- Accuracy $\pm 0.25\%$
- Stainless steel construction
- Sealed zero and span potentiometers
- Tight temperature compensation
- 15 to 10,000 PSI
- Advanced electronics design
- Internal shunt calibration
- 3mv/V, 5 Vdc or 4-20mA output

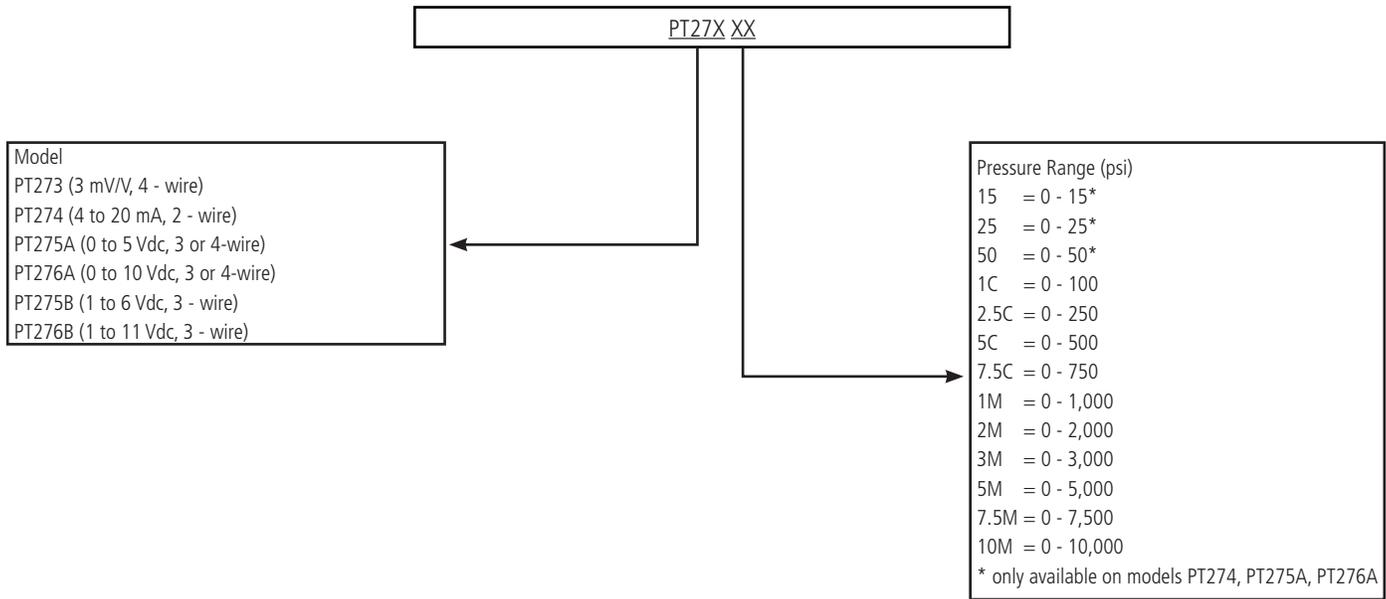
Performance Characteristics	
Pressure Range (psi):	0 - 15, 0 - 25, 0 - 50, (available only in PT274/275A/276A) 0 - 100, 0 - 250, 0 - 500, 0 - 750, 0 - 1,000, 0 - 2,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy:	±0.25% FSO including linearity, hysteresis, and repeatability
Repeatability:	±0.1% full scale
Full Scale Output:	PT273: 3 mV/V ±0.5%
Zero Balance:	PT273: ±2.0% full scale
Span Adjustment:	PT274: ±5.0% full scale; PT275A/276A: ±15.0% full scale
Zero Adjustment:	PT274/275A/276A: ±15.0% full scale
Electrical Characteristics	
Input/Output Resistance:	PT273: 350 Ohms, nominal
Loop Resistance:	PT274: 0 to 1,200 Ohms from 12 to 36 Vdc
Insulation Resistance:	PT273: 1,000 megohms @ 50 Vdc PT274/275A/276A: 100 megohms @ 50 Vdc
RFI/EMI Protection:	PT274/275A/276A: Meets CE standard
Input Current:	PT275A/276A: 45 mA maxi- mum @ 2,000 Ohms
Internal Shunt Calibration:	80% ±0.5% full scale
Circuit Protection:	PT274/275A/276A: Power supply reverse polarity protection, output short circuit protection
Model/Output:	Power Supply:
PT273 (4 - wire) 3 mV/V	10 Vdc, 15 Vdc maximum
PT274 (2 - wire) 4 to 20 mA	12 to 36 Vdc
PT275A (3 or 4-wire) 0 to 5 Vdc	10 to 36 Vdc
PT275B (3 - wire) 1 to 6 Vdc	10 to 36 Vdc
PT276A (3 or 4-wire) 0 to 10 Vdc	14 to 36 Vdc
PT276B (3 - wire) 1 to 11 Vdc	14 to 36 Vdc

Temperature Characteristics	
Operating Range:	PT273: -65°F to +250°F (-54°C to +120°C) PT274/275A/276A: -20°F to +185°F (-29°C to +85°C)
Compensated Range	0°F - 150°F (-18°C to +66°C)
Temperature Effect On Zero:	±0.005% full scale/°F (±0.009% FS/°C) typical, from 0°F to 150°F (-18°C to +66°C)
Temperature Effect On Span:	±0.005% full scale/°F (±0.009% FS/°C) typical, from 0°F to 150°F (-18°C to +66°C)
Mechanical Characteristics	
Safe Overpressure:	2 x rated pressure
Burst Pressure:	5 x rated pressure or 30,000 psi, whichever is less
Wetted Material:	17 - 4 PH, 15 - 5 PH stainless steel
Cover Material:	303, 304 stainless steel
Weight:	PT273: 4 ounces, PT274/275A/276A: 8 ounces

Connector Wiring

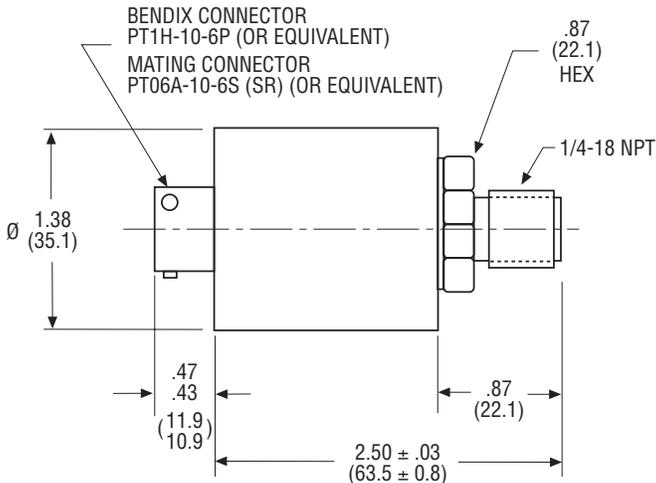
Model	Pin	Function
PT275A, PT276A, PT275B, PT276B	A	Signal+
	B	Signal-
	C	Power+
	B	Power-
PT273	E, F	Cal. Sig.
	A	Signal+
	B	Signal-
	C	Power+
PT274	D	Power-
	E, F	Cal. Sig.
	A	Power+
	B	Power-
	E, F	Cal. Sig.

Ordering Guide for PT273, PT274, PT275A & PT276A Pressure Sensors



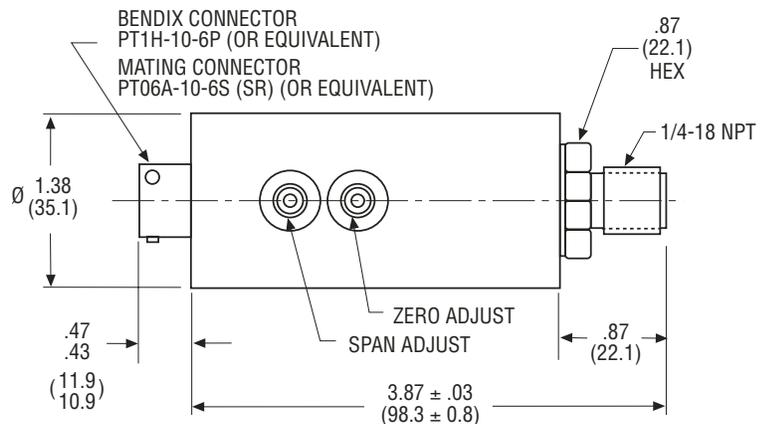
Mating connector PN/711600 or 6 - pin cable assembly sold separately. For additional options please consult factory.

Dimensions



PT273

All dimensions are inches (mm) unless otherwise specified.



PT274, PT275, PT275B, PT276 and PT276B

All dimensions are inches (mm) unless otherwise specified.
 ©2016. Dynisco reserves the right to make changes without notice.
 Refer to www.dynisco.com for access to Operator Manual and other support documentation.
 DSPT270
 Rev: 0717



www.dynisco.com

Dynisco
 38 Forge Parkway
 Franklin, MA 02038
 USA
 Hotline 1-800-Dynisco
www.dynisco.com
 Phone +1 508 541 9400
 Fax +1 508 541 6206
 Email infoinst@dynisco.com

Dynisco Europe, GmbH
 Pfaffenstr. 21
 74078 Hellbronn
 Germany
 Phone +49 7131 297 0
 Fax +49 7131 297 166
 Email dyniscoeurope@dynisco.com

Dynisco Shanghai
 Building 7A, No. 568
 Longpan Rd Malu
 Jiading, 201801 China
 Phone +86 21 34074072-819
 Toll Free +86 400 728 9117
 Fax +86 21 34074025