



From lab to production,
providing a window into the process



PT273, PT274, PT275A & PT276A Pressure Sensors

*HIGH ACCURACY, COMPETITIVELY
PRICED, TOP QUALITY TRANSDUCE*

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

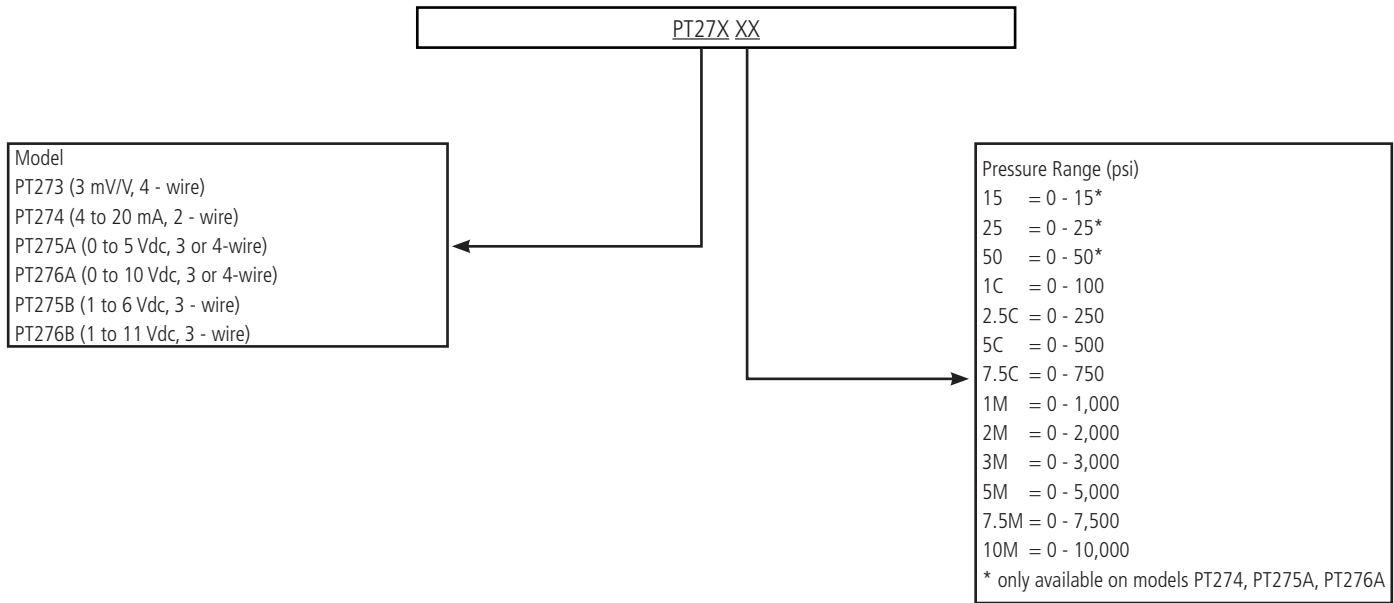
Performance Characteristics	
Pressure Range (psi):	0 - 15, 0 - 25, 0 - 50, (available only in PT274/275A/276A) 0 - 100, 0 - 250, 0 - 500, 0 - 750, 0 - 1,000, 0 - 2,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy:	±0.25% FSO including linearity, hysteresis, and repeatability
Repeatability:	±0.1% 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

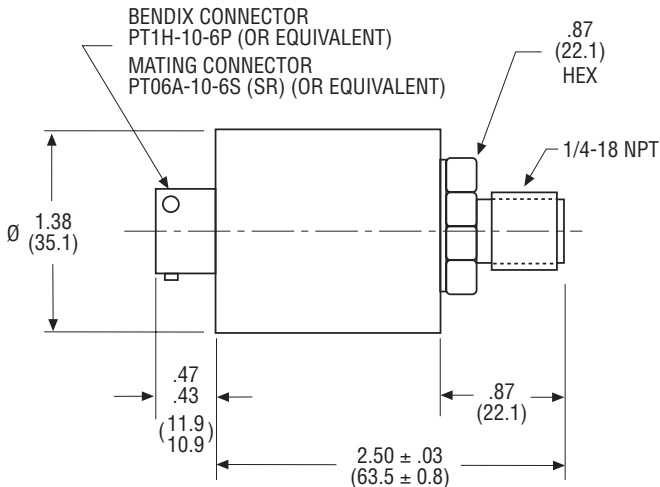
Model	Pin	Function
PT275A, PT276A, PT275B, PT276B	A	Signal+
	B	Signal-
	C	Power+
	B	Power-
PT273	E, F	Cal. Sig.
	A	Signal+
	B	Signal-
	C	Power+
PT274	D	Power-
	E, F	Cal. Sig.
	A	Power+
	B	Power-
	E, F	Cal. Sig.

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



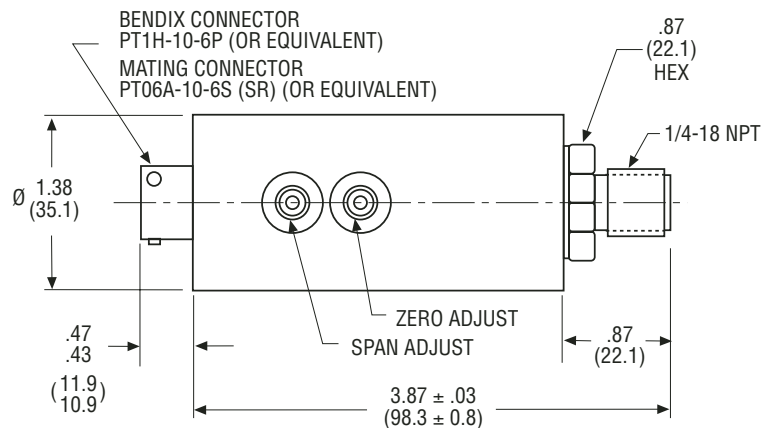
Mating connector PN/711600 or 6 - pin cable assembly sold separately. For additional options please consult factory.

Dimensions



PT273

All dimensions are inches (mm) unless otherwise specified.



PT274, PT275, PT275B, PT276 and PT276B

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 Refer to www.dynisco.com for access to Operator Manual and other support documentation.
 DSPT270
 Rev: 0717



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