



## Dynisco Model PT435A

**HIGH ACCURACY MELT PRESSURE TRANSDUCER FOR  
SPACE RESTRICTED AREAS**



### Description

Model PT435A provides the high accuracy of models PT420A and PT422A but can mount in extremely tight spaces. The specially designed process connector uses a free-spinning jam nut and an exposed capillary tube capable of 1/16" bend radius.

### Features

- Better than  $\pm 0.25\%$  accuracy
- 3.33 mv/V FSO
- Internal 80% shunt calibration
- All stainless steel wetted parts
- 0 - 500psi to 0 - 30,000psi
- Excellent thermal stability and repeatability
- Exposed, bendable capillary

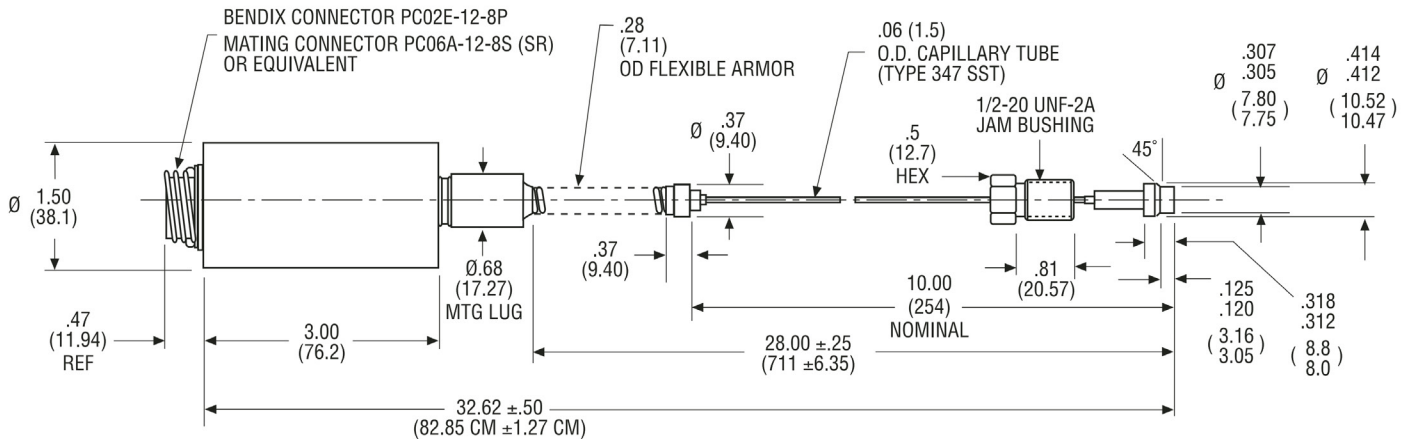
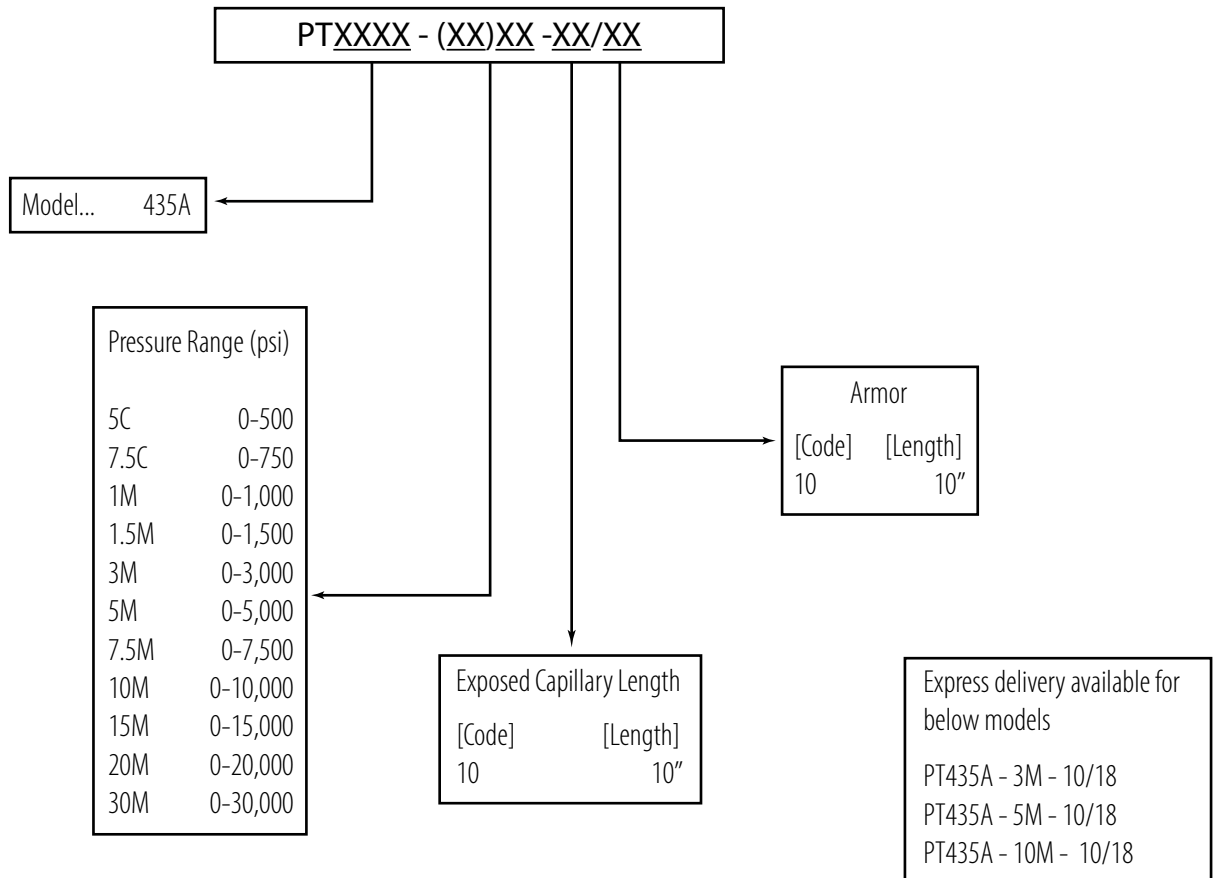
### Benefits

- Precise pressure measurement
- Standard low level output
- Easy set-up
- Corrosion resistant
- Choice of pressure ranges
- Ideal for high temperature processes
- Fits in space restricted areas

Performance Characteristics	
<b>Ranges (psi)</b>	0 - 500, 0 - 750, 0-1000, 0-1500, 0-3000, 0-5000, 0-7500, 0-10000, 0-15000, 0-20000, 0-30000
<b>Accuracy</b>	±0.25% FSO (±0.5% FSO for 500psi, 750psi, and 1000psi ranges)
<b>Repeatability</b>	±0.1% FSO (± 0.2% FSO for 500psi, 750psi, and 1000psi ranges)
<b>Mounting torque</b>	500 inch - lbs. maximum
<b>Maximum pressure</b>	2 x full range or 35,000psi (whichever is less)
<b>Material in contact with pressure media</b>	15 - 5 OH stainless steel, Dymax® coated
<b>Weight</b>	1.5 lbs.

Electrical Characteristics	
<b>Configuration</b>	Four active arm bonded Wheatstone bridge strain gage
<b>Bridge resistance</b>	<i>Input:</i> 345 Ohms minimum; <i>Output:</i> 350 Ohms ±10%
<b>Zero balance</b>	±5% FSO
<b>Full scale output</b>	3.33 mv/V ±2%
<b>Excitation</b>	10 Vdc recommended, 12Vdc maximum
<b>Internal shunt calibration (R-Cal)</b>	80% FSO ±0.5%
<b>Insulation resistance</b>	1000 megohms at 50 Vdc
Temperature Characteristics	
<b>Transducer diaphragm</b>	<i>Maximum diaphragm temperature:</i> 750°F (450°C) <i>Zero shift due to temperature change:</i> 15psi/ 100°F, typical (27psi/ 100°C)
<b>Electronics housing</b>	<i>Maximum temperature:</i> 250°F (121°C) <i>Zero shift due to temperature change:</i> ±0.01% full scale/°F maximum (±0.02% full scale/°C) <i>Sensitivity shift due to temperature change:</i> ±0.005% full scale/°F maximum (±0.01% full scale/°C)

# Ordering Guide for PT435A



All dimensions are in inches (millimeters) unless otherwise specified

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Refer to [www.dynisco.com](http://www.dynisco.com) for access to Operator Manual and other support documentation.  
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