

## PT41X4 Series

PT41X4 SERIES, INCLUDES MODELS  
PT4184, PT4194, TPT4194



### Description

The Dynisco PT41X4 Series transmitter is a +/- 0.5% sensor ideal for food or medical applications requiring simple installation, repeatability and reliability. The food grade oil fill material meets FDA requirements 21 CFR 178.3620, 21 CFR 172.878 and 21 CFR 573.680. The PT41X4 transmitters provide the industry standard 4 - 20 mA amplified signal designed to work with DCS and PLCs. The PT41X4 comes equipped with the NEW Auto-Zero functionality. Auto-Zero provides the user the ability to install the transmitter right out of the box with just using the zero push button after installation. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT41X4 features a 1/2-20 UNF thread for simple and easy installation in standard transducer mounting holes.

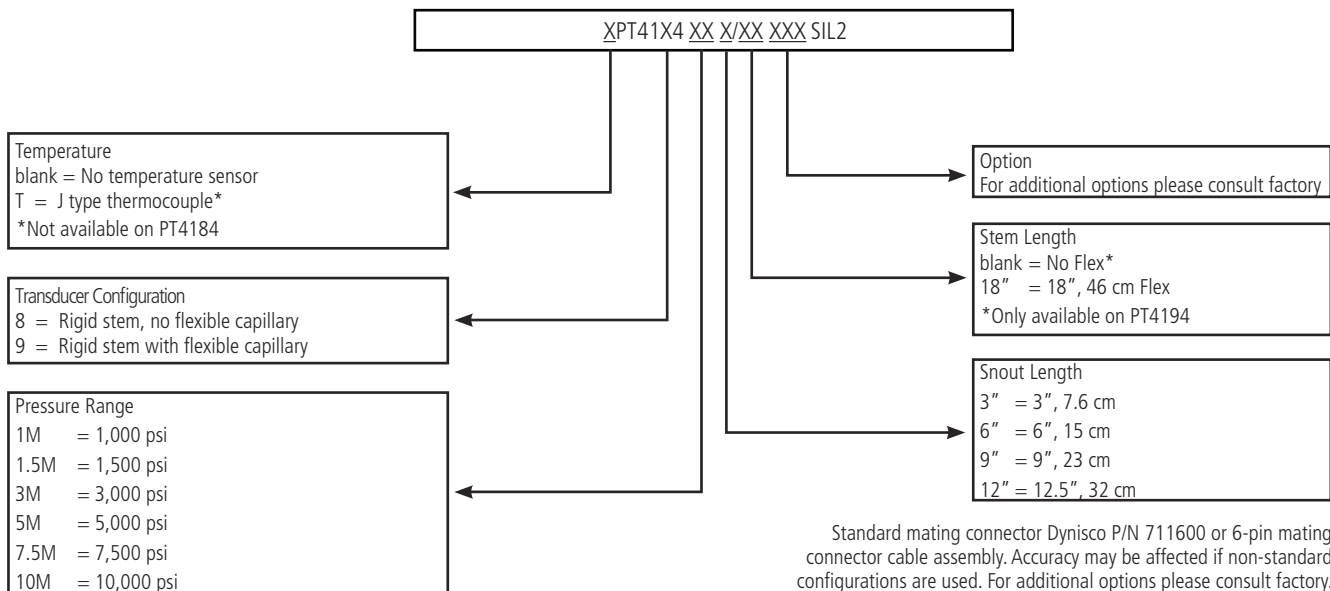
### Features

- Auto-Zero functionality
- Oil fill meets FDA requirements
- Accuracy better than +/- 0.5%
- DyMax™ coated convoluted SST wetted parts
- 4 - 20 mA output
- No span or zero pots
- No calibration required
- Ideal for medical and food extrusion
- Repeatable, reliable pressure measurements
- Superior abrasion resistance
- Direct input to supervisory control systems
- Ready to use out of the box, just Auto-Zero
- SIL2 (Safety Integrity Level 2) Certified

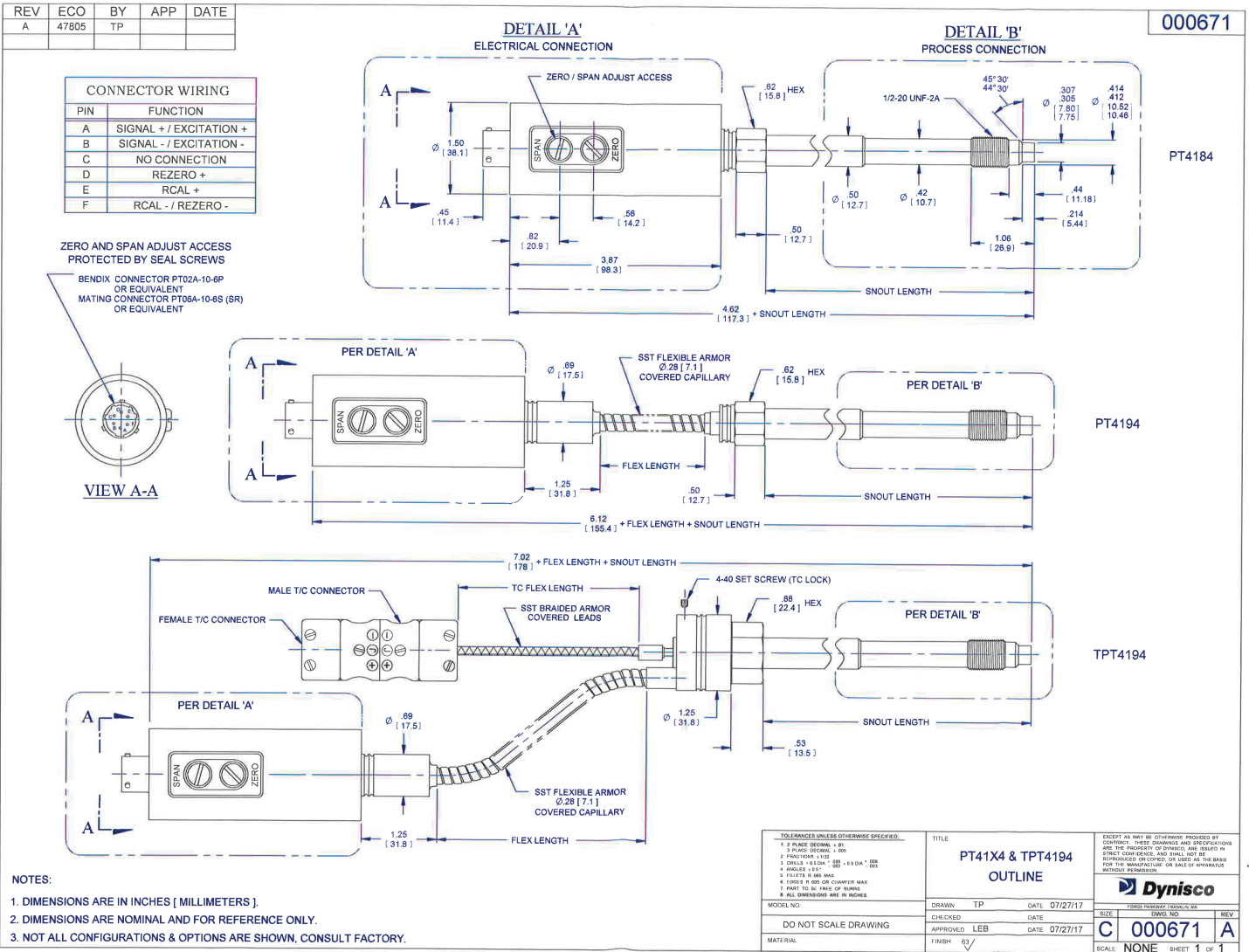
Performance Characteristics	
Output:	4 - 20 mA
Input Voltage:	14 - 36 Vdc
Accuracy:	+/- 0.5% FSO*
Repeatability:	+/- 0.2%FSO
Configuration:	Four-arm bonded foil Wheatstone bridge strain gage
Load Resistance:	0 - 1,100 Ohms
Over Pressure:	2 X FSO
Internal Shunt Calibration	(R-Cal): 80% FSO +/- 0.5%
Insulation Resistance:	1000 megohms @ 50 Vdc
Temperature & Mechanical Characteristics	
Max Diaphragm Temperature:	527°F (275°C)
Zero Shift (due to temperature change):	36 psi/100°F Typical (65 psi/100°C)
Electronics Operating Temperature:	-20°F to 185°F (-25°C to 85°C)
Zero Shift Due to Temperature Change:	+/- 0.05% FS/°F max (+/- 0.10% FS/°C max)
Mounting Torque:	500 inch/lbs. maximum
Standard Wetted Parts:	DyMax™ coated 15-5 PH SST

\*The organic oil fill may be susceptible to gas generation at high temperatures for extended periods which may affect zero value (and therefore accuracy). Request the product manual for a full explanation and recommended procedure to eliminate any observed offset.

## Ordering Guide for PT41X4 Series



# Dimensions



**NOTES:**

1. DIMENSIONS ARE IN INCHES [ MILLIMETERS ].
2. DIMENSIONS ARE NOMINAL AND FOR REFERENCE ONLY.
3. NOT ALL CONFIGURATIONS & OPTIONS ARE SHOWN, CONSULT FACTORY.

TOLERANCES UNLESS OTHERWISE SPECIFIED:		TITLE	
1 2 PLACE DECIMAL - .01	3 FRACTIONS - 1/32	PT41X4 & TPT4194 OUTLINE	
4 DRILLS - (3.0 DIA - .002) - (3.0 DIA - .002)	5 ANGLES - 1:20		
6 FILETS R .005 MAX	7 HOLE TO BE MADE BY CHAMFER MAX	EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DIMENSIONS AND SPECIFICATIONS ARE THE PROPERTY OF DYNISCO AND SHALL NOT BE REPRODUCED OR COPIED, OR USED AS THE BASIS FOR THE MANUFACTURE OF ANY EQUIPMENT WITHOUT PERMISSION.	
8 ALL DIMENSIONS ARE IN INCHES		<b>Dynisco</b> DYNISCO FRANKLIN, MA	
MODEL NO	DRAWN TP	DATE 07/27/17	SIZE C
DO NOT SCALE DRAWING	CHECKED LEB	DATE 07/27/17	REV A
MATERIAL	FINISH RZ		SCALE NONE SHEET 1 of 1

All dimensions are inches (mm) 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.  
 DSPT41X4SERIES  
 Rev: 1023



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