



From lab to production,  
providing a window into the process



# PT4654XL

REPEATABLE, RELIABLE  
PRESSURE MEASUREMENTS

## Description

The Dynisco PT4654XL Series transmitter is a  $\pm 0.5\%$  sensor ideal for injection molding machine nozzles or hot runners to measure polymer melt pressure. The PT4654XL transmitter provides the industry standard 4 - 20 mA amplified signal to data acquisition or SPC/SQC programs. The PT4654XL comes equipped with adjustable zero and span pots. The PT4654XL features a 1/2-20 UNF jam nut for simple and easy installation in space restricted areas. The transmitter can be supplied in a variety of lengths to meet the requirements of the application.

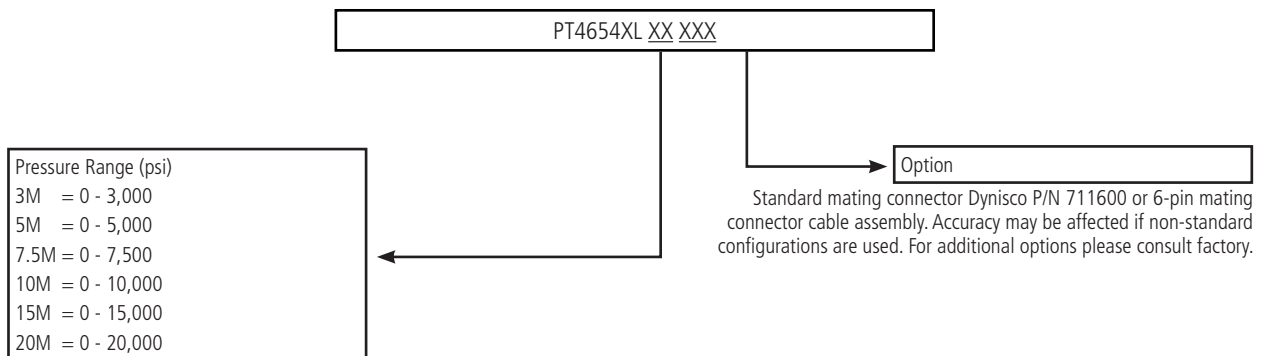
## Features

- Adjustable zero and span
- Accuracy better than  $\pm 1.0\%$
- Inconel diaphragm
- 4 - 20 mA output
- 0 - 3,000 to 0 - 20,000 psi
- Internal 80% shunt calibration

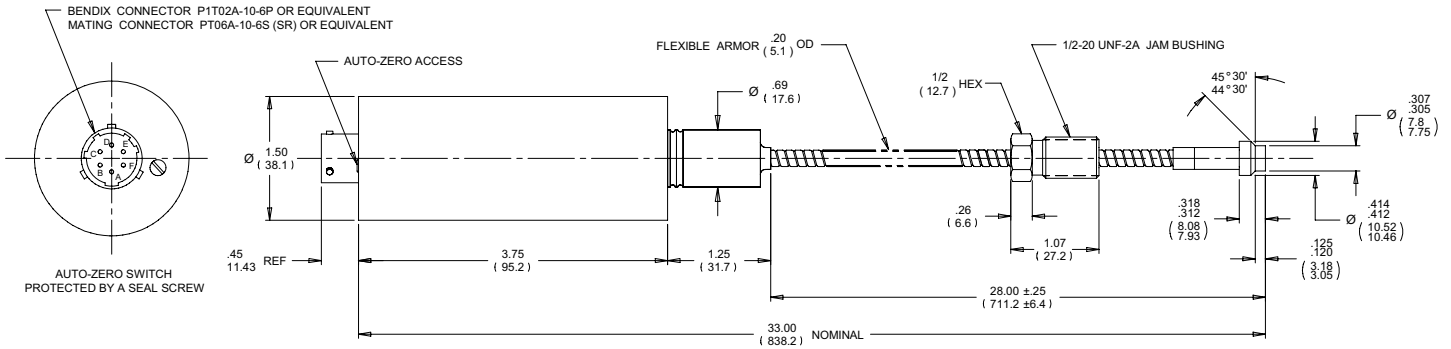
Performance Characteristics	
Output:	4 - 20 mA
Input Voltage:	14 - 36 Vdc
Combined Error:	± 1.0% FSO (Including Linearity, Repeatability & Hysteresis)
Repeatability:	± 0.2%FSO
Configuration:	Four-arm bonded foil Wheatstone bridge strain gage
Load Resistance:	0 - 1,100 Ohms
Over Pressure:	2 X FSO or 35,000 psi (whichever is less)
Zero Balance Adjustment Range:	± 0.5%, min. -2% to 5% fs
Internal Shunt Calibration (R-Cal):	80% FSO ± 0.5%
Insulation Resistance:	1000 megohms @ 50 Vdc

Temperature & Mechanical Characteristics	
Max Diaphragm Temperature:	750°F (400°C)
Zero Shift (due to temperature change):	< 20 psi/100oF Typical (36 psi/100oC)
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:	Inconel 718

### Ordering Guide for PT4654XL Series



# Dimensions



CONNECTOR WIRING	
PIN	FUNCTION
A	SIGNAL +
B	SIGNAL -
C	NO CONNECTION
D	AUTO-ZERO
E	INTERNAL CAL RESISTOR
F	GROUND

NOTES  
 1. DIMENSIONS ARE IN INCHES (MILLIMETERS)

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.  
 DSPT4654XL  
 Rev: 1216



[www.dynisco.com](http://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