PT4654XL

REPEATABLE, RELIABLE
PRESSURE MEASUREMENTS

Description

The Dynisco PT4654XL Series transmitter is a ±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 ±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/100°F Typical (36 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:** Inconel 718

### Ordering Guide for PT4654XL Series

#### Pressure Range (psi)

- 3M = 0 - 3,000
- 5M = 0 - 5,000
- 7.5M = 0 - 7,500
- 10M = 0 - 10,000
- 15M = 0 - 15,000
- 20M = 0 - 20,000

Standard mating connector Dynisco P/N 711600 or 6-pin mating connector cable assembly. Accuracy may be affected if non-standard configurations are used. For additional options please consult factory.
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.

DSPT4654XL
Rev: 1216

Dimensions

**CONNECTOR WIRING**

<table>
<thead>
<tr>
<th>PIN</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>SIGNAL +</td>
</tr>
<tr>
<td>B</td>
<td>SIGNAL -</td>
</tr>
<tr>
<td>C</td>
<td>NO CONNECTION</td>
</tr>
<tr>
<td>D</td>
<td>AUTO-ZERO</td>
</tr>
<tr>
<td>E</td>
<td>INTERNAL CAL RESISTOR</td>
</tr>
<tr>
<td>F</td>
<td>GROUND</td>
</tr>
</tbody>
</table>

**NOTES**

1. DIMENSIONS ARE IN INCHES (MILLIMETERS)

---

**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**  
Pfaffemstr. 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  
Fax +86 400 728 9117  
Email infoinst@dynisco.com