**PT415**

*Food Extrusion Pressure Transducer*

### Description

Dynisco’s PT415 Series of washdown pressure transducers are the ideal choice for food and medical extrusion measurements requiring a fill material that meets FDA and USDA requirements. Model PT415 uses a special high temperature fill (NaK, Sodium Potassium) and an Inconel diaphragm to allow accurate pressure measurements in processes with temperatures as high as 1000°F. The transducers are supplied with a high accuracy (0.5%), great repeatability and reliability. An 1/2-14 NPT conduit fitting or 6-pin hermetically sealed bendix-style connector is used for easy connect and disconnect.

### Features
- 3.33 mV/V full scale output
- Accuracy of better than ±0.5%
- Pressure ranges from 0 - 500 psi to 0 - 10,000 psi
- All welded stainless steel with washdown capability
- FDA recognized safe (GRAS) for food and medical applications
- Available with hermetic connector or conduit fitting
- Internal 80% shunt calibration
- CE approved
## Performance Characteristics

<table>
<thead>
<tr>
<th>Ranges (psi):</th>
<th>0 - 500</th>
<th>0 - 750</th>
<th>0 - 1,000</th>
<th>0 - 1,500</th>
<th>0 - 3,000</th>
<th>0 - 5,000</th>
<th>0 - 7,500</th>
<th>0 - 10,000</th>
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</thead>
<tbody>
<tr>
<td>Accuracy:</td>
<td>±0.5% FSO</td>
<td>±0.5% FSO</td>
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<tr>
<td>Repeatability:</td>
<td>±0.2% FSO</td>
<td>±0.2% FSO</td>
<td>±0.2% FSO</td>
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<tr>
<td>Mounting torque:</td>
<td>500 inch - lbs. maximum</td>
<td>500 inch - lbs. maximum</td>
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<tr>
<td>Maximum pressure:</td>
<td>2 x full range</td>
<td>2 x full range</td>
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<tr>
<td>Material in contact with pressure media:</td>
<td>15 - 5 PH stainless steel, Dymax® coated</td>
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</tr>
<tr>
<td>Weight:</td>
<td>2 lbs.</td>
<td>2 lbs.</td>
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</tbody>
</table>

## Temperature Characteristics

<table>
<thead>
<tr>
<th>Transducer diaphragm:</th>
<th>Maximum diaphragm temperature:</th>
<th>750°F (400°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zero shift due to temperature change:</td>
<td>15 psi/100°F maximum (27 psi/100°C)</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Electronics housing:</th>
<th>Maximum temperature:</th>
<th>250°F (121°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zero shift due to temperature change:</td>
<td>±0.01% full scale/°F maximum (±0.02% full scale/°C)</td>
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<tr>
<th>Sensitivity shift due to temperature change:</th>
<th>±0.005% full scale/°F maximum (±0.01% full scale/°C maximum)</th>
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</table>
Ordering Guide for PT415

Delivery
Please call for specific delivery information

Pressure Range (psi)
- SC = 0 - 500
- 7.5C = 0 - 750
- 1M = 0 - 1,000
- 1.5M = 0 - 1,500
- 3M = 0 - 3,000
- 5M = 0 - 5,000
- 7.5M = 0 - 7,500
- 10M = 0 - 10,000

Connector
B314 (optional 6-pin electrical connector)

Rigid Stem Length
- 3 = 3 in
- 4 = 4 in
- 6 = 6 in
- 9 = 9 in
- 12 = 12 in

Mating connector P/N711600 or 6-pin cable assembly for B314 option sold separately.

Transducer Options: Call for complete information on stem length, diaphragm and thread coatings, and compensation.

Dimensions

All dimensions are in inches (millimeters) unless otherwise specified.