DYNISCO MODELS PT244E & PT244S
Flange-Mount Melt Pressure Transmitters for Hazardous Locations

Description
Models PT244E and PT244S are designed for use in hazardous locations where explosive gases are present. The PT244E is a conduit fitting style unit that carries Factory Mutual (FM) explosion-proof approval. The PT244S is FM and SIRA approved for intrinsically safe and is available in a conduit fitting or 6 or 8 pin connector version. Approvals are for Class I, Division I, Groups A, B, C and D.

Features
• FM explosion-proof, FM/SIRA intrinsically safe
• 4 to 20 mA loop - powered output
• 0 - 250 to 0 - 7,500 psi
• Convenient access
• Extra rugged
• Signal meets IEC801-3 standard
• Thermocouple or RTD option, intrinsically safe model PT244S only
• Conduit fitting only Model PT244E, Model PT244S has conduit or 6 or 8 pin connector

Benefits
• Only unit of its type approved for hazardous areas
• Output to DCS or computer system
• Choice of pressure ranges
• Side zero and span adjustments
• Welded electronics housing
• Broad spectrum RFI/EMI immunity
• Temperature measurement alternatives
• Choice of electrical connections

Note: E Series models carry FM explosion-proof approvals (standard unit), S Series models have FM/SIRA intrinsically safe approval only.

Specifications

Performance Characteristics
Ranges (psi): 0 - 250, 0 - 500, 0 - 750, 0 - 1,000, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500
Accuracy: ±0.25% FSO (0.5% for 250 psi ranges)
Repeatability: ±0.1% FSO

Maximum pressure: 2 x full range
Material in contact with pressure media: 15 - 5 PH stainless steel, DyMax™ coated
Weight: 3 lbs.

Electrical Characteristics
Output: 4 to 20 mA
Input voltage: 12 to 36 Vdc
Electrical termination: 1/2 to 14 NPT conduit fitting with 42" (1.15m) long lead wires
Optional: 6 or 8 pin connector (model PT244S only)

Zero balance adjustment range: -40% to +10%; -80% to +20% for <500 psi
Gain span adjustment range: -10% to +50%
Load resistance: 1,200 Ohms maximum at +36 Vdc, 600 Ohms maximum at +24 Vdc

Temperature Characteristics
Transducer diaphragm:
Maximum diaphragm temperature: 750°F (400°C)
Zero shift due to temperature change: 15 psi/100°F typical (27 psi/100°C)

Electronics housing:
Operating temperature range: -20°F to +185°F (-29°C to +85°C)
Temperature effects over a compensated temperature range of 0 to +150°F (-18°C to +65°C):
Zero: 0.01% full scale/F maximum (0.02% full scale/C maximum)
Span: 0.01% full scale/F maximum (0.02% full scale/C maximum)
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Ordering Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Diaphragm Material/Coating</th>
<th>Approvals</th>
<th>Pressure Range psi</th>
<th>Snout</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 - 5 PH SST with DyMax™ coating</td>
<td>E</td>
<td>FM Explosion - proof</td>
<td>0 - 250</td>
<td>17B (0 - 17)</td>
<td>2.406&quot; std</td>
</tr>
<tr>
<td>B 15 - 5 PH SST with Borofuse Coating</td>
<td>S</td>
<td>FM intrinsically safe</td>
<td>0 - 750</td>
<td>35B (0 - 35)</td>
<td>Specify length for special configuration</td>
</tr>
<tr>
<td>H Hastelloy I Inconel</td>
<td>7.5C</td>
<td>0 - 750</td>
<td>50B (0 - 50)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T 15 - 5 PH SST with Titanium Nitride Coating</td>
<td>15M</td>
<td>0 - 1,500</td>
<td>1CB (0 - 100)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3M</td>
<td>0 - 3,000</td>
<td>2CB (0 - 200)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5M</td>
<td>0 - 5,000</td>
<td>3.5CB (0 - 350)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7.5M</td>
<td>0 - 7,500</td>
<td>5CB (0 - 500)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Stem Lengths

- Specify length from 0 to 12 inches (0 to 30.5 cm) and add "R" after number
- Rigid: 18"

Electrical Connection

- Conduit Fitting with Cable: 42" standard
- Additional lengths available up to 999"
- Connectors: C6 = PT02A - 10 - 6P
- Options: C6B = PT02H - 10 - 6P
- C6H = PT1H - 10 - 6P
- C7D = DIN 7 pins
- C7T = TAJIMI
- C8 = PC022E - 12 - 8P

Thermocouple/RTD

- Please consult factory.
- Not available on explosion - proof approved models

Note: Consult factory for available options and alternate full scale settings

Ordering Examples: PT244E- 5C - 2.046/18; PT244S - 5M - 2.046/18 - C6H

Standard snout assembly