DYNISCO MODEL PT449
Strain Gage Pressure Transducer for Direct Cavity Measurement

Description
The PT449 transducer is a miniature pressure transducer that mounts directly in the mold, flush with the cavity surface. The transducer does not depend upon knockout pins, thus eliminating pin hangup and improving measurement accuracy. The PT449 is used to measure peak cavity pressure, the most accurate and repeatable way to initiate the holding pressure phase.

Features
- Mounts flush with cavity
- Sensing tip can be shaped down 0.05" section of part
- Direct contact with material
- Withstands 400°F mold and 600°F melt
- 6 mm sensing area
- Standard 80% shunt calibration

Benefits
- Can be located close to “end of fill”
- Does not require ejector pin
- Accurate indication of cavity pressure profile
- Ideal for high temperature processes
- Easy installation
- Easy set - up

Specifications

Performance Characteristics
Range (psi): 0 - 20,000
Accuracy: ±0.5% FSO
Repeatability: ± 0.1% FSO
Maximum pressure: 150% of full range

Electrical Characteristics
Configuration: Four active arm bonded Wheatstone bridge strain gage
Bridge resistance: 350 Ohms nominal
Full scale output: 1.5 to 1.6 mV/V full scale
Zero balance: ±5.0% full scale
Mounting torque: 50 inch - lbs.
Material in contact with pressure media: 15 - 5 PH and 17 - 4 PH stainless steel
Mating connector: P/N712000 provided
Weight: 1.5 lbs.
Excitation: 6 VDC recommended, 10 VDC maximum
Shunt calibration (R-Cal): Internal 80% FSO ±1.0%
Insulation resistance: 1,000 megohms at 50 VDC

Temperature Characteristics
Maximum temperature: 400°F (204°C) mold temperature and 600°F (315°C) melt temperature
Zero shift due to temperature change: 0.02% full scale/°F maximum (0.04% full scale/°C)
Sensitivity shift due to temperature change: 0.02% full scale/°F maximum (0.04% full scale/°C)
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Ordering Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Sensing Area</th>
<th>Pressure Range (psi)</th>
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</thead>
<tbody>
<tr>
<td>PT449</td>
<td>6 mm</td>
<td>20M 0 - 20,000</td>
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</tbody>
</table>

Ordering Examples: PT449 - 20M
• Mating connector provided, cable assembly P/N802020 sold separately.

Delivery
Please call for specific delivery information.