DYNISCO MODEL 840-8
Flush Diaphragm, Loop Powered Pressure Transducer

Description
Dynisco’s 840 - 8 flush diaphragm pressure transducer is designed for applications requiring a zero volume pressure port. The flush diaphragm improves frequency response and has excellent cleanability. The 840 - 8 has a loop powered, 4 to 20 mA output and offers reliable and accurate pressure measurements of gases, viscous liquids and slurries.

Features
• Zero volume pressure port
• Flush diaphragm design
• Zero volume pressure port
• Loop powered, 4 to 20 mA output
• 15 to 10,000 psi

Benefits
• Improved frequency response
• Meets cleanability standards
• Improved frequency response
• Output to DCS or computer systems
• Choice of ranges

Specifications

Performance Characteristics
Ranges (psi): 0 - 15, 0 - 25, 0 - 100, 0 - 250, 0 - 500, 0 - 750, 0 - 1,500, 0 - 2,500, 0 - 3,000, 0 - 5,000, 0 - 10,000
Accuracy: ±0.5% FSO including linearity, hysteresis and repeatability

Electrical Characteristics
Full scale output: 4 to 20 mA (2 - wire)
Input voltage: 12 to 36 Vdc
Zero adjust: ±5% FSO
Insulation resistance: 100 megohms @ 50 Vdc
Span adjustment: ±5%
Loop resistance: 0 - 1,200 Ohms from 12 - 36 Vdc

Temperature Characteristics
Operating temperature range: -20°F to +185°F (-29˚C to +85˚C)
Compensated range: 0°F to 150°F (-18˚C to +66˚C)
Temperature effect on zero: ±0.01% full scale/°F (±0.018% full scale/˚C)
Temperature effect on span: ±0.02% full scale/°F (±0.036% full scale/˚C)

Mechanical Characteristics
Safe overpressure: 2 x rated pressure
Burst pressure: 4 x rated pressure
Wetted material: 17 - 4 PH stainless steel
Cover material: 303, 304 stainless steel
Pressure port seal: Transducer supplied with DYNA-SEAL™ (P/N633014)
Weight: Approximately 17 ounces
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Ordering Guide

<table>
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<th>Model</th>
<th>Pressure Port Code</th>
<th>Pressure Port Description</th>
<th>Electrical Termination Code</th>
<th>Electrical Termination Description</th>
<th>Wiring Code</th>
<th>Wiring Description</th>
<th>Pressure Range (psi)</th>
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<tbody>
<tr>
<td>G840</td>
<td>8</td>
<td>Flush diaphragm</td>
<td>4</td>
<td>2 - wire, 42' long,</td>
<td>4</td>
<td>red (+)</td>
<td>0 - 15</td>
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<td>3/4 - 16 UNF thread</td>
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<td>1/2 - 14 NPT conduit fitting</td>
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<td>black (-)</td>
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ORDERING GUIDE FOR HAZARDOUS AREA CERTIFICATION

If required, model G840 - 844 - XXX is available for operation in hazardous areas and certified explosion-proof by Factory Mutual (FM) for use in Class 1, Division 1, Groups A, B, C and D locations. When ordering you must add the suffix E to the basic model number: G840E - 844 - XXX.

Delivery

Please call for specific delivery information.