DYNISCO MODELS 840 & 841
Amplified Pressure Transmitters for Hazardous Areas

Description
The models 840 and 841 pressure transmitters have certified versions for use in hazardous areas, with explosion-proof and ATEX/intrinsically safe models available. These 2-wire transmitters convert pressure to a 4 to 20 mA signal for easy interface with process control instrumentation, while the compact design simplifies installation. A sour gas service option conforms to NACE standard MR-01-75.

Features
- Accuracy of ±0.5% (840), ±0.25% (841)
- Explosion-proof and ATEX/intrinsically safe models
- Loop powered, 4 to 20 mA output
- Welded, stainless steel construction
- Encapsulated electronics
- Ranges to 60,000 psi

Benefits
- Reliable pressure measurement
- Hazardous area certification available
- Output to DCS or computer systems
- For use in hostile environments
- Stable pressure signal
- Measurement at high pressures

Specifications

Performance Characteristics
Ranges (psi): 0 - 250, 0 - 500, 0 - 1,000, 0 - 1,500, 0 - 2,500,
0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000 0 - 15,000, 0 - 20,000,
0 - 30,000, 0 - 35,000, 0 - 40,000, 0 - 50,000, 0 - 60,000
Other ranges available. Please consult factory.

Accuracy:
840: ±0.5% psi
841: ±0.25% psi including linearity, hysteresis and repeatability

Electrical Characteristics
Full scale output: 4 to 20 mA, 2-wire
Input voltage: 12 to 36 Vdc
Insulation resistance: 100 megohms @ 50 Vdc

Zero balance: ±2% FSO
Zero adjustment: ±5% FSO
Span adjustment: ±5% psi
Loop resistance: 0 - 1,200 Ohms from 12 to 36 Vdc

Temperature Characteristics
Operating range: -20˚ to +185˚F (-29˚C to +85˚C)
Compensated range: 0˚ to +150˚F (-18˚C to +66˚C)
840: ±0.01% full scale/F (±0.018% full scale/˚C) typical
±0.02% full scale/F (±0.036% full scale/˚C) maximum
841: ±0.005% full scale/F (±0.009% full scale/˚C)

Temperature effect on span:
840: ±0.02% full scale/F (±0.036% full scale/˚C)
841: ±0.005% full scale/F (±0.009% full scale/˚C)

Mechanical Characteristics
Safe overpressure: 250 - 30,000 psi: 1.5 x rated pressure
35,000 - 60,000 psi: 1.2 x rated pressure

Burst pressure:
250 psi: 10 x rated pressure
500 - 3,000 psi: 5 x rated pressure
5,000 - 10,000 psi: 3 x rated pressure
15,000 - 30,000 psi: 2.5 x rated pressure
40,000 - 60,000 psi: 1.5 x rated pressure

Wetted material: 17 - 4 PH, 15 - 5 PH stainless steel
Cover material: 303, 304 stainless steel
Weight: Approximately 17 ounces
DYNISCO MODELS 840 & 841
Pressure Transmitters for Hazardous Areas

Ordering Guide

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<th>Pressure Port</th>
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<tr>
<td>Code</td>
<td>Description</td>
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<td>G</td>
<td>Gage (+/- 0.5%)</td>
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<td>S</td>
<td>Sealed (+/- 0.25%)</td>
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<td>A</td>
<td>Absolute</td>
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<td>ATEX Approved Intrinsically Safe</td>
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<tr>
<th>Electrical Termination</th>
<th>Wiring</th>
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<td>Code</td>
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<td>PT02H-10-6P Connector</td>
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<td>4</td>
<td>1/2-14 NPT Conduit with 2 Wire 42” Leads</td>
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Note: Shown with 1/2 - 14 NPT external pressure port

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

Delivery & Options
Please call for specific delivery information.