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.*

Electrical Characteristics

Full scale output: 4 to 20 mA, 2 - wire Input voltage: 12 to 36 Vdc Insulation resistance: 100 megohms @ 50 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) **Temperature effect on zero:** *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)

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
 500 - 3,000 psi:
 5 x rated pressure

 5,000 - 10,000 psi:
 5 x rated pressure
 15,000 - 30,000 psi:
 25 x rated pressure

 40,000 - 60,000 psi:
 1.5 x rated pressure
 2.5 x rated pressure
 2.5 x rated pressure

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

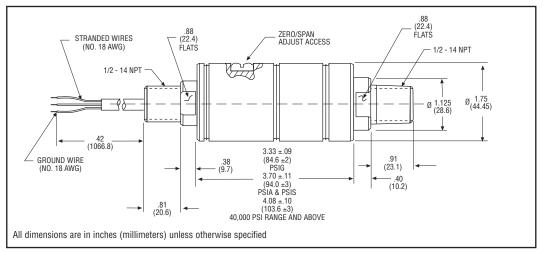
Zero balance ±2% FSO Zero adjustment: ±5% FSO Span adjustment: ±5% psi Loop resistance: 0 - 1,200 Ohms from 12 to 36 Vdc

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)

Wetted material: 17 - 4 PH, 15 - 5 PH stainless steel Cover material: 303, 304 stainless steel Weight: Approximately 17 ounces

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Note: Shown with 1/2 - 14 NPT external pressure port

Ordering Guide

Pressure Reference		Model	Approval		Pressure Port		
Code	Description		Code	Description	Code	Description	
G	Gage	840	(blank)	No Approvals	0	1/8-27 NPTF Internal (up to 20000 psi)	
S	Sealed	(+/- 0.5%)	Ē	Explosion Proof	1	1/4-18 NPTF Internal (up to 20000 psi)	
A	Absolute		S	ATEX Approved	2	7/16-20 NPTF Internal (up to 20000 psi)	
		841 (+/- 0.25%)		Intrinsically Safe	3	F-250-C Autoclave (up to 60000 psi)	
					4	1/4-18 NPTF External (up to 10000 psi)	
					5	1/2-14 NPTF External (up to 10000 psi)	
					6	7/16-20 UNF External (up to 7500 psi)	
					7	R1/4 Metric (up to 10000 psi)	
					8	3/4-16 UNF External (up to 10000 psi)	
					А	1/2-14 BSP External (up to 40000 psi)	
					В	1/2-14 NPSM External (up to 60000 psi)	
					С	F-562-C Autoclave (up to 60000 psi)	
					D	1" BSP Internal (up to 30000 psi)	
					G	F-375-C Autoclave (up to 60000 psi)	

Electrical Termination		Wiring		Pressure Range (PSI)	
Code	Description	Code	Description	Code	Description
0 1	PT02A-10-6P Connector PT02H-10-6P Connector	0	Pin A (+) Pin B (-)	2.5C 5C	0 - 250 0 - 500
4	1/2-14 NPT Conduit with 2 Wire 42" Leads	4	Red (+) Black (-)	7.5C 1M 1.5M	0 - 750 0 - 1000 0 - 1500
		9	Special C.F.	2.5M 3M	0 - 2500 0 - 3000
			-	5M 7.5M	0 - 5000 0 - 7500
				10M 15M	0 - 10000 0 - 15000
				20M 30M 35M	0 - 20000 0 - 30000 0 - 35000
				40M 50M	0 - 35000 0 - 40000 0 - 50000
				60M	0 - 60000

Delivery & Options

Please call for specific delivery information.