DYNISCO MODELS E243 & S243

Flange Stem Melt Pressure Transmitters for Hazardous Locations

Description

Models E243 and S243 are flanged stem versions of the 242 series. They are designed for use in hazardous locations where explosive gases are present. The E243 is a conduit fitting style unit that carries Factory Mutual (FM) explosion - proof approval. The S243 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

- Better than ±0.25% accuracy
- FM explosion-proof or FM/SIRA intrinsically safe
- · Flange mounting
- · 4 to 20 mA loop powered output
- 0 250 to 0 30,000 psi
- Side zero and span adjustments
- · Welded electronics housing
- Signal meets IEC801 3 standard
- Thermocouple or RTD option, intrinsically safe model S243 only
- Conduit fitting only Model E243, Model S243 has conduit or 6 or 8 pin connector

Benefits

- · Precise pressure measurement
- Only unit of its type approved for hazardous areas
- Easy removal from process
- · Output to DCS or computer system
- · Choice of pressure ranges
- · Convenient access, easy to use
- Extra rugged
- · Broad spectrum RFI/EMI immunity
- · Temperature measurement alternatives
- · Choice of electrical connections



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EXTENDED
LIFE

COATING

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 - 500, 0 - 750, 0 - 1,000, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000, 0 - 15,000, 0 - 20,000, 0 - 30,000 **Accuracy:** ±0.25% FSO (0.5% for 500, 750 and 1,000 psi ranges)

Repeatability: ±0.1% FSO

Mounting torque: 40 inch - lbs. maximum

Maximum pressure: 2 x full range or 35,000 psi (whichever is less)

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 S243 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:

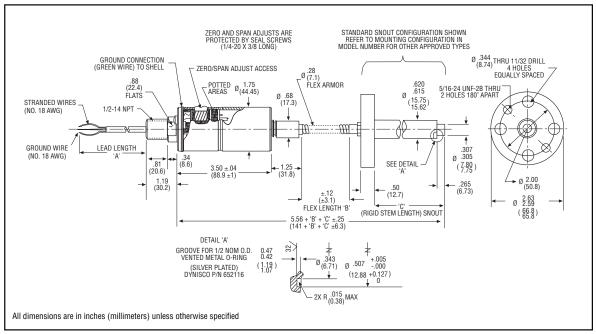
Maximum diaphragm temperature: 750°F (400°C)

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

Model		Diaphragm and Material Coating	Mounting Configuration			
	Code	Material/Coating	Code	Mounting		
E243	(Blank)	15 - 5 PH SST with DyMax™ coating	(Blank)	Standard flange (as shown)		
(FM Explosion - proof)	В	15 - 5 PH SST with Borofuse coating	FX	Additional flange types (FM and		
	Н	Hastelloy		(i.e. F1, F2, etc.)		
	1	Inconel		Please consult factory		
S243	T	15 - 5 PH SST with Titanium Nitride Coating	Blank	Standard flange as shown		
(FM and SIRA						
Intrinsically Safe)						

Pressure Ra	inge (psi)	Rigid	Stem	Flexib	le Stem	Lead Length	Electrical C	onnection	Thermoc	ouple/RTD
Code	Range	Code	Length	Code	Length	Description	Conduit Fitting w/Cable	Connectors	Code	Туре
1.5M 0 3M 0 5M 0 7.5M 0 10M 0 15M 0 20M 0	- 500	3 4 6 9 12	3 " 4 " 6 " 9 " 12 "	30	30 "	42" (standard) Additional lengths available up to 999"	Conduit fitting with cable 42" (standard) Additional lengths available up to 999"	C6 = PT02A-10-6P C6G = PT02H-10-6P C6H = PT1H-10-6P C7D = DIN 7 pins C7T = TAJIMI C8 = PC02E-12-8P (For model S242 only)	TC (Model	J S242 only)

Note: 1. Consult factory for available options and alternate full scale settings

2. Model PT253 (0 - 5 Vdc output) and model PT263 (0 - 10 Vdc output) also available. Please consult factory.

Ordering Examples: E243 - 5C - 6/18; S243 - 5M - 6/30 - C6H; S243 - 1M - 6/30 - C6 - TC