DYNISCO MODELS E242 & S242

Thread-Mount Melt Pressure Transmitters for Hazardous Locations

Description

Models E242 and S242 are designed for use in hazardous locations where explosive gases are present. The E242 is a conduit fitting style unit that carries Factory Mutual (FM) explosion - proof approval. The S242 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. Its all - welded construction features a 1/2 - 20 UNF thread for installation in standard transducer mounting holes.

Features

- Better than ±0.25% accuracy
- FM explosion proof or FM/SIRA intrinsically safe
- · 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 S242 only
- Conduit fitting only Model E242, Model S242 has conduit or 6 or 8 pin connector

Benefits

- · Precise pressure measurement
- Carries either IS or EP certification for hazardous areas
- 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



NEW EXTENDED LIFE

COATING

Note: E Series models carry FM/SIRA intrinsically safe and FM explosion-proof approvals (standard unit), S Series models have FM/SIRA intrinsically safe approval only.

Specifications

Performance Characteristics

Ranges (psi): 0 - 250, 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: 500 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 S242 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)

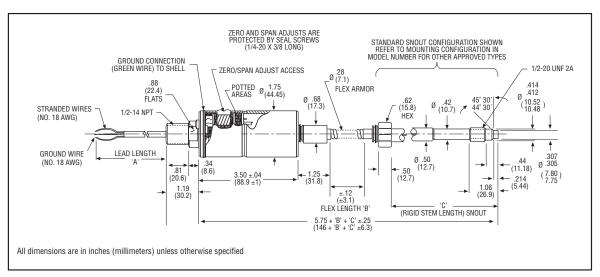
Zero shift due to temperature change: 15 psi/100°F typical (27 psi/100°C)

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/Material Coating	Mounting Configuration			
	Code	Material/Coating	Code	Mounting		
		15 - 5 PH SST with DyMax™ coating		1/2 THD (standard)		
	В	15 - 5 PH SST with Borofuse coating	1/2B	1/2 BSP THD		
	Н	Hastelloy	1/2L	1/2 - 20 with loose nut		
E242	1	Inconel	M14	M14 x 1.5 THD		
(FM Explosion - proof)	T	15 - 5 PH SST with Titanium Nitride Coating	M18	M18 x 1.5 THD		
			G2T	G1/4 THD with taper seat		
			G2L	G1/4 THD with loose nut		
S242			G3	G3/8 THD with flat seat		
(FM and SIRA			G3L	G3/8 THD with loose nut		
Intrinsically Safe)			G3T	G3/8 THD with taper seat		
			G8L	G1 THD with loose nut		
			JB1	1/2 - 20 jam nut with exposed capillary		

Pressure Range (psi) Rigi	Rigid Stem		le Stem	Lead Length Electrical C		onnection	Thermocouple/RTD	
Code Ran	je Code	Length	Code	Length	Description	Conduit Fitting w/Cable	Connectors	Code	Туре
1.5M 0 - 1 3M 0 - 3 5M 0 - 5	,000 ,000	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 (Mode	J I S242 only)

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

2. Model PT252 (0 - 10 Vdc) and model PT262 (0 - 5 Vdc) also available. Please consult factory.

Ordering Examples: E242 - 5C - 6/18; S242 - 5M - 6/30 - C6H; S242 - 5M - 6/30 - C6 - TC