

DYNISCO MODELS PT241E & PT241S

Flange-Mount Melt Pressure Transmitters for Hazardous Locations

Description

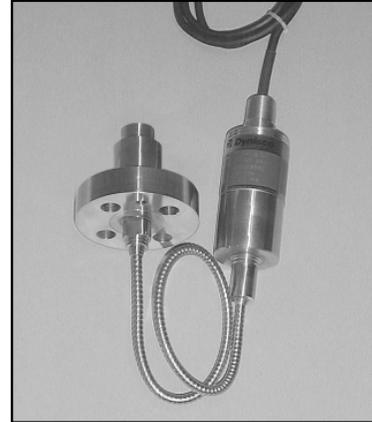
Models PT241E and PT241S Flange-Mounted Melt Pressure Transmitters are designed for use in hazardous locations where explosive gases are present. The PT241E is a conduit fitting style unit that carries Factory Mutual (FM) explosion - proof approval. The PT241S is FM and SIRA approved for intrinsically 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

- FM explosion - proof, FM/SIRA intrinsically safe
- 4 to 20 mA loop - powered output
- 0 - 250 to 0 - 1,000 psi
- Convenient access
- Extra rugged
- Signal meets IEC801-3 standard
- Thermocouple or RTD option, intrinsically safe model PT241S only
- Conduit fitting only Model PT241E, Model PT241S has conduit or 6 or 8 pin connector

Benefits

- Only unit of its type approved for hazardous areas
- Output to DCS or computer system
- Choice of pressure ranges
- Side zero and span adjustments
- Welded electronics housing
- Broad spectrum RFI/EMI immunity
- Temperature measurement alternatives
- Choice of electrical connections



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 - 250, 0 - 500, 0 - 750, 0 - 1,000

Accuracy: $\pm 1.0\%$ for 250, 500, 750 and 1,000 psi

Repeatability: $\pm 0.1\%$ FSO

Maximum pressure: 2 x full range

Material in contact with pressure media: DyMax™ coated 15 - 5 PH stainless steel

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 PT241S 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)

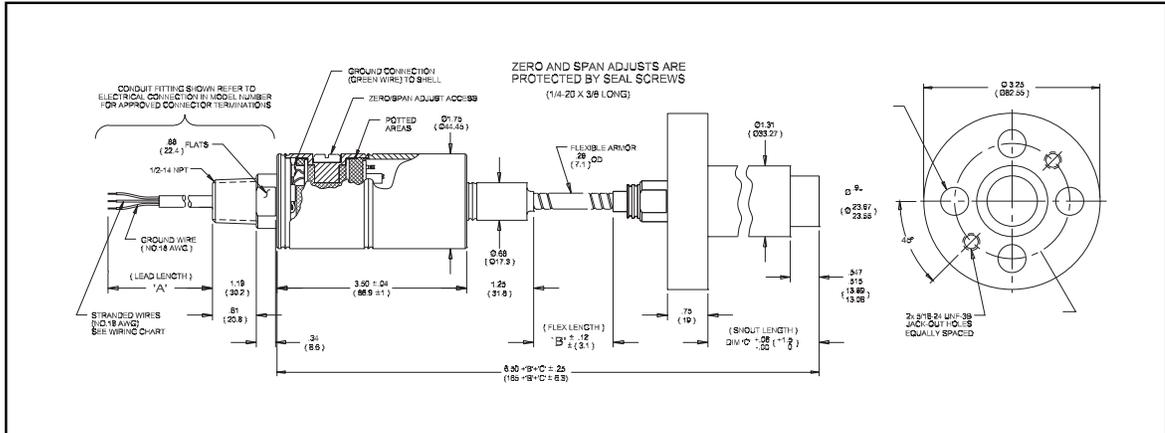
Temperature effects over a compensated temperature range of 0 to +150°F (-18°C to +65°C):

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		Approvals		Pressure Range				Snout
	Code	Material/Coating	Code	Description	Code	psi	Code	bar	Length
PT241		15 - 5 PH SST with DyMax™ coating		No approval	2.5C	0 - 250	17B	(0 - 17)	2.031"
	B	15 - 5 PH SST with Borofuse Coating	E	FM Explosion - proof	5C	0 - 500	35B	(0 - 35)	
	H	Hastelloy	S	FM intrinsically safe	7.5C	0 - 750	50B	(0 - 50)	
	I	Inconel			1M	0 - 1,000	70B	(0 - 70)	
	T	15 - 5 PH SST with Titanium Nitride Coating			1.5M	0 - 1,500	10B	(0 - 100)	

Stem Lengths		Electrical Connection		Thermocouple/RTD
Rigid	Flexible	Conduit Fitting with Cable	Connectors	Options
Specify length from 0 to 12 inches (0 to 30.5 cm) and add "R" after number	18"	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	Please consult factory. Not available on explosion - proof approved models

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

Ordering Examples: PT241E-5C-2.031/18; PT241S-5M-2.031/18-C6H