DYNISCO MODEL PT292

Button-Seal Replacement Pressure Transmitters for Process Control in Hazardous Areas

Description

The PT292 transmitters were designed for applications where a threaded stem configuration is required. Models are available with Factory Mutual (FM) explosion - proof or FM intrinsically safe (SIRA) approvals. Both models, PT292E and PT292S, are approved for Class I, Division I, Groups A, B, C and D. The 290 Series is the ideal choice for low pressure applications.

Features

- Accuracy of better than ±0.5% full scale
- 0 25 psi (0 2 bar) to 0 10,000 psi (0 700 bar)
- Replacement for traditional "button seal" units
- New diaphragm design
- 4 to 20 mA loop powered output
- New side mounted zero and span adjustments
- · Various configurations
- New amplifier
- · Heavy duty welded electronics housing
- Thermocouple or RTD option available

Benefits

- Improves process optimization
- · Proper range choice improves performance
- · Installs in "button" seal holes
- · Improved stability
- Industry standard
- · Reduces set up time
- · Easy to install
- · Superior resistance to electromagnetic noise
- · Environmental protection
- Temperature measurement from same process connection



New Extended Life

COATING

Specifications

Performance Characteristics

Ranges:

psi: 0 - 25, 0 - 50, 0 - 100, 0 - 250, 0 - 500, 0 - 750, 0 - 1,000, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000 *bar*: 0 - 2, 0 - 3, 0 - 7, 0 - 15, 0 - 30, 0 - 50, 0 - 100, 0 - 200, 0 - 350, 0 - 500, 0 - 700

Electrical Characteristics

Input voltage: 12 to 36 Vdc Output: 4 to 20 mA (2 - wire) Maximum load resistance: 600 Ohms at 24 Vdc, 1,200 Ohms at 36 volts Gain (span) adjustment range: ±25% FSO minimum, factory set to within ±0.5%

Load regulation: At operating voltage of 24 Vdc, current output will vary

Maximum pressure: 2 x full range below 7,500 psi,1.5 x full range for 10,000 psi

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

20.25% full scale for a change of 10 to 600 0hms
Zero balance adjustment range: ±40% FS0 up to 100 psi, ±25% FS0 at higher ranges (positive output indicated only). Factory set to within ±0.5%

Temperature Characteristics

Transducer diaphragm: Maximum transducer diaphragm temperature: 750°F (400°C) Zero shift due to temperature change: 1.0 psi/100°F typical (from 75°F to 450°F) 2.0 psi/100°F typical (from 450°F to 600°F) .07 bar/38°C typical (from 24°C to 232°C) .14 bar/38°C typical (from 232°C to 315°C)

Electronics housing:

Accuracy: ±0.5% FSO

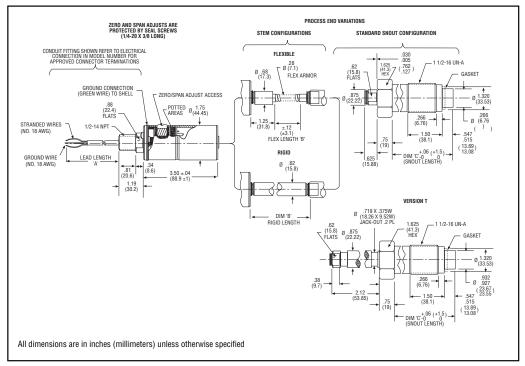
Weight: 2 lbs. (.9 kg)

Repeatability: ±0.1% FSO

Operating temperature range: -20°F to +140°F (-28° to +60°C) Temperature effects over a compensated range of 0°F to 140°F (-18°C to +60°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 | Diaph | ragm Material/Coating | Approvals | | Pressure Range | | | Snout | | |
|-------|-------|----------------------------|-----------|-----------------------|----------------|---|----------|-------|-----------|-------------------|
| | Code | Material/Coating | Code | Description | Code | | psi | Code | bar | Length |
| | | 15 - 5 PH SST with | | No approval | 25 | 0 | - 25 | 2B | (0 - 2) | Specify length |
| | | DyMax [™] coating | E | FM Explosion - proof | 50 | 0 | - 50 | 3B | (0 - 3) | from 1.2 to 10.0 |
| | В | 15 - 5 PH SST | S | FM intrinsically safe | 10 | 0 | - 100 | 7B | (0 - 7) | decimal inches |
| | | with Borofuse Coating | | - | 2.5C | 0 | - 250 | 15B | (0 - 15) | (3.05 to 25.4 cm) |
| | н | Hastelloy | | | 5C | 0 | - 500 | 30B | (0 - 30) | , , , |
| PT292 | 1 | Inconel | | | 7.5C | 0 | - 750 | 50B | (0 - 50) | |
| | Т | 15 - 5 PH SST | | | 1M | 0 | - 1,000 | 70B | (0 - 70) | |
| | | with Titanium | | | 1.5M | 0 | - 1,500 | 1CB | (0 - 100) | |
| | | Nitride Coating | | | 3M | 0 | - 3,000 | 2CB | (0 - 200) | |
| | | | | | 5M | 0 | - 5,000 | 3.5CB | (0 - 350) | |
| | | | | | 7.5M | 0 | - 7,500 | 5CB | (0 - 500) | |
| | | | | | 10M | 0 | - 10,000 | 7CB | (0 - 700) | |

| Stem Len | gths | Electrica | Thermocouple/RTD | |
|---|----------|--|---|---|
| Rigid | Flexible | Conduit Fitting with Cabl | e Connectors | Options |
| Specify length from 0 to 36 inches (0 to 91.4 cm) and add "R" after number | 30" | 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: PT292S - 1.5M - 3/60