# **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

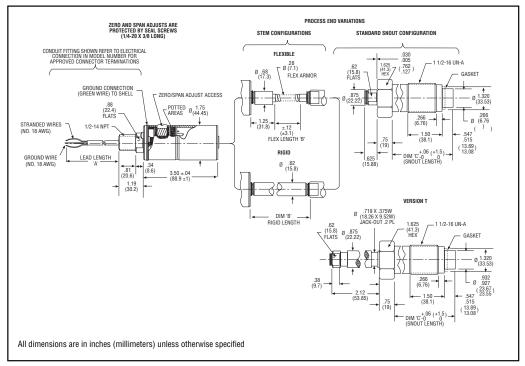
Weight: 2 lbs. (.9 kg)

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 <sup>™</sup> 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