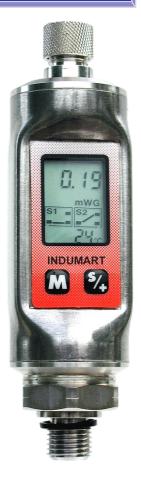


Indicating Pressure Transmitter/Switch

SERIES: PST400

0.2% ACCURACY

- 4-20 mA OR 0...10 VDC OUTPUT
- **▶ 2 RELAYS OUTPUTS**
- PRESSURE INDICATION IN VARIOUS UNITS
- TEMPERATURE INDICATION IN °C OR °F
- SIMPLE CONFIGURATION
- **► TEMPERATURE COMPENSATION**
- ST. STEEL HOUSING & PROCESS CONNECTION
- EXCELLENT ALTERNATING LOAD RESISTANCE
- PRESSURE PEAK DAMPING ELEMENT
- ▶ LONG SERVICE LIFE AND GREAT STABILITY
- ► RANGES UP TO 30,000 PSI (2,000 BAR)
- **▶ ELECTROMAGNETIC PROTECTION**



INTRODUCTION

The PST400 Indicating Pressure Transmitter/Switch has a number of innovative features integrated into a compact housing. In addition to having a 4-20 mA or 0-10 volt output, the instrument is equipped with two electrically isolated relay outputs.

The back-lit LCD display indicates the pressure in both a 4-digit numerical value and a bargraph presentation. In addition, the status of the switches, temperature of the sensor and a warning light to indicate "out of rated pressure" will be displayed for an informative operation.

The PST400 Series is easily programmed with the aid of only two buttons located on the face of the instrument, and configuration parameters may be saved with security codes to prevent instrument tampering.

The all stainless steel design stands aggressive fluids, and provides the measurement accuracy of better than 0.2%. The high burst pressure capability of this pressure transmitter/switch gives the PST400 another advantage over the available pressure sensing instruments.

The PST400 Series are equipped with a damping element to direct away pressure peaks or liquid hammering from their sensors; hence showing a high level of resistance to mechanical shocks.

The industrial, heavy-duty PST400 meets the electromagnetic compatibility (EMC) requirements of IEC61000-6-2 and IEC61000-6-3.

SPECIFICATIONS

Accuracy $\pm 0.2\%$ FSRepeatability $\pm 0.05\%$ FS

Sensor AISI 316L, AISI 630

Housing AISI 304 Seal NBR

Process Connection 1/4" G male or female

1/2" G male.

1/4" NPT male or female (for up to 600 psi or 40 bar only)
1/2" NPT male (for up to 600

psi or 40 bar only) M18x1.5 male, flange 4-20 or 0-10 VDC

Analogue Output Switching

2 electrically isolated relays, 30W (1A max.) 36 VAC/DC

Switching Time 5...9999 ms adjustable

SPECIFICATIONS (continue..)

Switching Differential 1...99% FS **Response Time** 1 ms, 10...90%

Power Supply (mA out)10...30VDC, 24VDC nominal Power Supply (V out) 15...30VDC, 24VDC nominal

Insulation Resistance >10MΩ, 100 VDC Dielectric Strength 100 VAC, 50 Hz Load (4-20 mA Output) \leq 250Ω (10...30 VDC) Load (0-10 V Output) \geq 5kΩ (15...30 VDC)

Current Consumption ≤70 mA

Electrical Connection M12x1, 8-pole plug,

PUR cable, 2m, 5m (option)

Display Back-lit LCD display,

4-digit pressure indication, Temperature display °C/°F, ON/OFF switching state

Pressure Scale psi (kpsi), Pa, kPa (MPa), bar, mbar, mWG selectable

Configuration By 2 buttons, Menu selection

Temp. Compensation -25...+80°C
LCD Temp. Display -10...+70°C
Media Temperature -25...+125°C
Storage Temperature -25...+80°C
Humidity -25...+80°C
maximum 95% RH

 Vibration
 10 g (25...2000 Hz)

 Shock
 50 g / 11 ms

Environ. Protection IP65 with the plug installed

Temp. Coefficient

Zero & Span ±0.01% / K / FS (typical) ±0.025% / K / FS (max.)

EMC Emission IEC 61000-6-3 IEC 61000-6-2 Dimensions Ø 34 x 130±7 mm,

Code	Range (Over Rar	nge	Burst Pressure
01	01 bar		bar	30
03	02.5	5		100
04	04	8	1 bar	= 100 kPa 100
05	06	12		100
06	010	20		200
07	016	32		200
08	025	50		300
09 10	040 060	80 120		300 500
11	0100	200		500
13	0250	500		1000
14	0400	800		1500
15	0600	1200		2000
16	01000	1800		2800
17	01600	3000		4000
18	02000	3000		4000
21	015 psi	30	psi	1000
22	030	60		2500
23	060	120		2500
24	0100	200		2500
25	0150	300		4500
26	0200	400		4500
27 28	0300 0400	600 800		4500 4500
29	0500	1000		4500 4500
30	0600	1200		4500
31	0750	1500		4500
32	01000	2000		7500
33	01500	3000		7500
34	02000	4000		7500
35	03000	6000		7500
36	05000	10000		15000
37	07500	15000		22000
38	010000	18000		30000
39 40	015000	27000		40000 60000
41	020000 030000	35000 45000		60000
71	050000	40000		00000

Please use XX code for vacuum, compound and special ranges. Ex.: -1...4 bar, 0...5 bar, 0...12 bar, -10...30 psi, 0...120 psi, etc.

ORDER CODES Model PST400 -PROCESS CONNECTION **RANGE** Select a range from the table (01 to 41) (up to 40 bar or 600 psi) 1/4" NPT male 2 G 1/4 male 3 (up to 40 bar or 600 psi) 1/4" NPTf for special ranges use XX. Ex: -100...+400 kPa 4 G ¼ female (up to 40 bar or 600 psi) ½" NPT male **PRESSURE** 5 G ½ male Gauge G 6 7 Absolute (1/4" female connection only - ranges from 30 psi M18x1.5 male to 600 psi and their equivalent in bar and kPa available only) 8 Flange Connection **OUTPUT ANALOGUE SIGNAL** SWITCHES 4 - 20 mA 1 2 Relays 0 - 10 VDC 2