

**MODEL: PTF111 & PTF111X**Also available as  
**EX** version

- 0.2% ACCURACY
- INTRINSICALLY SAFE (OPTION)
- ZERO AND SPAN ADJUSTMENTS
- TEMPERATURE COMPENSATION
- 316L STAINLESS STEEL WETTED PARTS
- RANGES FROM 0.15 psi UP TO 15000 psi (10 mbar TO 1000 bar)
- MEDIUM TEMPERATURE -40...+120°C (STANDARD); +170°C(OPTION)
- LOCAL INDICATOR WITHOUT OR WITH TWO OPTO CONTACTS (OPTION)

With local indicator,  
available as option**INTRODUCTION**

Indumart *PTF111* Industrial Pressure Transmitters are very accurate and reliable instruments which convert pressure inputs to current or voltage signals. The *PTF111X* is suitable for potentially explosive environment.

The case and wetted parts of the *PTF111* transmitters comprise stainless steel and are thus resistant to chemically aggressive media.

The *PTF111* transmitters are available in various ranges, as low as 0.15 psi (10 mbar) to the maximum of 15000 psi (1000 bar). The zero and span of the *PTF111* can be adjusted by the user to accommodate any pressure offset or the exact range setting.

The *PTF111* transmitters operate in media temperature of up to 120°C and compensate for the errors due to temperature variations of up to 80°C. This '2-wire' transmitter meets the requirements for a great level of electromagnetic compatibility (EMC) protection.

Optionally the *PTF111* with current output can be combined with the DIS100 indicator (not available for *PTF111X*). This combination can have no contact or two opto contacts

**SPECIFICATIONS**

<b>Accuracy</b>	0.2% of full scale
<b>Case</b>	304 St. steel
<b>Wetted Parts</b>	316L St. steel
<b>Process Connection</b>	½" NPT male or G½ male
<b>Measuring Range</b>	0...10 mbar to 0...1000 bar 0 ~ 0.15 psi to 0...15000 psi As low as 0...100 mmH2O
<b>Pressure Type</b>	Absolute, vacuum, positive and compound pressures
<b>Output Signals</b>	2-wire 4-20 mA (std); 0-20 mA & 0-10 VDC (option)
<b>Supply power</b>	Nominal 24 VDC 10.5-36 VDC for mA output 15-36 VDC for volt output
<b>Intrinsically Safe</b>	II 1/2 Ex ia IIC T4/T5 (option)
<b>Electric Connection</b>	Plug with junction box
<b>Load (R) in ohms</b>	$R < (U_{\text{supply}} - 10.5V) / 0.02 A$ $R > 5 k\Omega$ for volt output
<b>Zero &amp; Span Adjust.</b>	10% of the nominal range
<b>Thermal Error</b>	Typically 0.02%/°C
<b>Medium Temperature Compensated Temp.</b>	-40...120°C; 170°C (option)
<b>Ambient Temperature</b>	-10...80°C
<b>Environ. Protection</b>	IP65; IP67 (option)

Indumart reserves the right to change the specifications without prior notice.

**Code Range Over-pressure**

V1	-1...0	bar	1	bar
A1	0~0.01		1	
A2	0~0.025	For kPa, mm H <sub>2</sub> O, in H <sub>2</sub> O, mm Hg & other pressure units, please specify in bar or psi. For example: 100 kPa = 1 bar	1	
A4	0~0.04		1	
A6	0~0.06		1	
B1	0~0.1		1	
B2	0~0.25		2	
B4	0~0.4		2	
B6	0~0.6	2		
01	0...1		4	
02	0...1.6		6	
03	0...2.5		10	
04	0...4		16	
05	0...6		24	
06	0...10		40	
07	0...16		64	
08	0...25		100	
09	0...40		160	
10	0...60		240	
11	0...100		400	
12	0...160		640	
13	0...250		1000	
14	0...400		1200	
15	0...600		1200	
16	0...1000		1200	

G1	-30"Hg...0		15	psi
D1	0~0.15	psi	15	
D3	0~0.3		15	
D6	0~0.6		15	
E1	0...1		15	
E2	0~1.5		15	
E5	0...5		35	
20	0...10		35	
21	0...15		60	
22	0...30		120	
23	0...60		240	
24	0...100		400	
25	0...150		600	
26	0...200		800	
27	0...300		1200	
28	0...400		1600	
29	0...500		2000	
30	0...600		2400	
31	0...750		3000	
32	0...1000		4000	
33	0...1500		6000	
34	0...2000		8000	
35	0...3000		12000	
36	0...5000		17500	
37	0...7500		17500	
38	0...10000		17500	
39	0...15000		17500	

Measuring ranges can have an interval of 10 mbar (0.15 psi) up to 1000 bar (15000 psi). Therefore, almost any range can be supplied.  
(Please use XX code for vacuum, compound and special ranges.  
Ex.: 0...10 mbar, -1...4 bar, 0...5 bar, 0...12 bar, 0...0.2 psi, -10...30 psi, 0...120 psi, etc.

**ORDER CODES**

**Model PTF111** [ ] - [ ] [ ] [ ] - [ ] [ ] [ ]

**INTRINSICALLY SAFE**  
Not Required (std.) [ ]  
Required [ X ]

**RANGE**  
A Range from the Table [ ]  
For special ranges use XX

**PRESSURE**  
Absolute [ ]  
Gauge [ G ]

**PROCESS CONNECTION**  
½" NPT male [ ]  
G ½ male [ ]  
Other (please specify) [ 1 2 3 ]

**OUTPUT SIGNAL**  
4 - 20 mA [ ]  
20 - 4 mA [ ]  
0 - 10 VDC [ ]  
0 - 20 mA [ ]  
Other (please specify) [ 1 2 3 4 9 ]

**ELECTRICAL CONNECTION**  
Industrial Standard DIN 43650 (IP65) [ ]  
M12x1 with 3 m cable (IP67) [ ]  
Cable Connection with 3 m cable (IP67) [ 1 2 3 ]

**OPTIONS (more than one option may be selected)**  
Cable length of more than 3 meters (please specify) [ C ]  
Finned body for up to 170°C (up to 600 psi or 40 bar) [ F ]

(Local indicator must be ordered separately, but not available as intrinsically safe)

**DIMENSIONS (mm)**

