



MODEL: PTF115

HIGH VISCOSITY & SANITARY APPLICATIONS

- 0.25% OR 0.5% ACCURACY
- ZERO AND SPAN ADJUSTMENTS
- TEMPERATURE COMPENSATION
- ST. STEEL HOUSING & WETTED PARTS
- RANGES FROM 50 in.H2O UP TO 8000 PSI
- LONG SERVICE LIFE AND GREAT STABILITY
- EXCELLENT ALTERNATING LOAD RESISTANCE
- HASTELLOY-C OR TEFLON COATED FLUSH DIAPHRAGM (OPTION)
- LOCAL INDICATOR WITHOUT OR WITH TWO OPTO CONTACTS (OPTION)

With local indicator;
available as option



INTRODUCTION

Indumart *PTF115* Flush Diaphragm Pressure Transmitters are very accurate and reliable instruments which convert pressure inputs to current or voltage signals.

Flush diaphragm transmitters are suitable for the measurement of slurry, sludge, or high viscosity media. By avoiding dead area crystallization of the solid particles, they ensure trouble-free pressure measurement. These pressure transmitters have been carefully designed to cover the majority of industrial applications, such as, water and wastewater treatment, pulp and paper stock measurement, level measurements, chemical and petrochemical processes, food and pharmaceutical industries, and many other process control operations.

The case and wetted parts of the *PTF115* transmitters comprise stainless steel and are thus resistant to chemically aggressive media. Optionally, the flush diaphragm may be made of Hastelloy-C or teflon coated stainless steel. The pressure connection and the measuring element of these precision instruments are welded together, making the measuring system particularly resistant to mechanical shocks or vibrations.

The *PTF115* transmitters are available in various ranges, as low as 50 in.H₂O (0.1 bar) to the maximum of 8000 psi. The zero and span of the *PTF115* can be adjusted by the user to accommodate any pressure offset or the exact range setting.

Optionally the *PTF115* with current output can be combined with the DIS100 indicator (IP65). This combination can have no contact or two opto contacts.

SPECIFICATIONS

Accuracy	0.5% of span; 0.25% (option)
Housing	AISI 304
Process Connection	AISI 316; 1" for up to 30 psi, 1/2" for 50 to 8000 psi span
Wetted Parts	AISI 316 (standard) Hastelloy C flush diaphragm, Teflon coated 316 st. steel
Sensor Element	≤300 psi piezoresistive; >300 psi thin film
Measuring Range	0...50 in. H ₂ O to 0...8000 psi
Pressure Type	Absolute, vacuum, compound and positive pressures
Transmitting Liquid	Silicon oil, fluorocarbon oil for O ₂ service
Adjustability	Zero and span adjustments ±5% of the full scale
Response Time	≤1 ms (10...90% of scale)
Output Signals	4-20 mA, 0-20 mA, 0-5 V, 0-10 V, and 0-100 mV
Power Supply (V_s)	10...30 VDC 14...30 VDC (for 0-10 V output)
Electric Connection	Plug with junction box
Electrical Protection	Reverse polarity, over-voltage and short circuit protections
Temp. Compensation	0...80°C
Temp. Coefficient	0.02% / k
Medium Temperature	-30...100°C
Ambient Temperature	-20...80°C
Environ. Protection	IP65
Vibration Resistance	15 g (15...2000 Hz)
Shock Resistance	1000 g, 1 ms
Weight	0.2 kg, 0.3 kg for 0.25% acc.

Range	Over Range	Burst Pressure
30...0 in.Hg (vac.)	70 psi	70 psi
30"...0...30 psig	250 psi	250 psi
30"...0...60 psig	500 psi	500 psi
30"...0...100 psig	500 psi	500 psi
30"...0...160 psig	500 psi	500 psi
30"...0...200 psig	1100 psi	1100 psi
0...50 in.H2O	30 psi	30 psi
0...100 in.H2O	30 psi	30 psi
0...5 psig	30 psi	30 psi
0...10 psig	60 psi	60 psi
0...15 psia	70 psi	70 psi
0...15 psig	70 psi	70 psi
0...25 psia	145 psi	145 psi
0...25 psig	145 psi	145 psi
0...30 psig	145 psi	145 psi
0...50 psia	250 psi	250 psi
0...50 psig	250 psi	250 psi
0...60 psig	250 psi	250 psi
0...100 psia	500 psi	500 psi
0...100 psig	500 psi	500 psi
0...160 psig	500 psi	500 psi
0...200 psig	500 psi	500 psi
0...250 psia	1100 psi	1100 psi
0...250 psig	1100 psi	1100 psi
0...300 psig	1100 psi	1100 psi
0...400 psig	725 psi	3600 psi
0...500 psia	1100 psi	5800 psi
0...500 psig	1100 psi	5800 psi
0...600 psig	1100 psi	5800 psi
0...750 psig	1100 psi	5800 psi
0...1000 psig	1750 psi	8000 psi
0...1500 psig	2900 psi	11,600 psi
0...2000 psig	4600 psi	14,500 psi
0...3000 psig	4600 psi	14,500 psi
0...5000 psig	11,600 psi	25,000 psi
0...8000 psig	17,400 psi	35,000 psi

1 bar = 14.5 psi
 1 bar = 100 kPa
 1 bar = 401.5" H2O
 1 bar = 29.53" Hg
 1 kPa = 4.0" H2O

- Over range pressure: causing no permanent change in specifications; zero and span may need readjustments.
 - Burst pressure: leading to permanent, non-adjustable changes in specifications or destruction of the transmitter.

Output	Load Resistance	U _{supply}
4 - 20 mA	$(U_{supply} - 10V) / 0.2 A$	10 - 30 VDC
0 - 5 VDC	$\geq 5.0 k\Omega$	10 - 30 VDC
0 - 10 VDC	$\geq 10.0 k\Omega$	14 - 30 VDC
0 - 100 mVDC	$\geq 1000 k\Omega$	10 - 30 VDC
0 - 20 mA	$(U_{supply} - 10V) / 0.2 A$	10 - 30 VDC

ORDER CODES

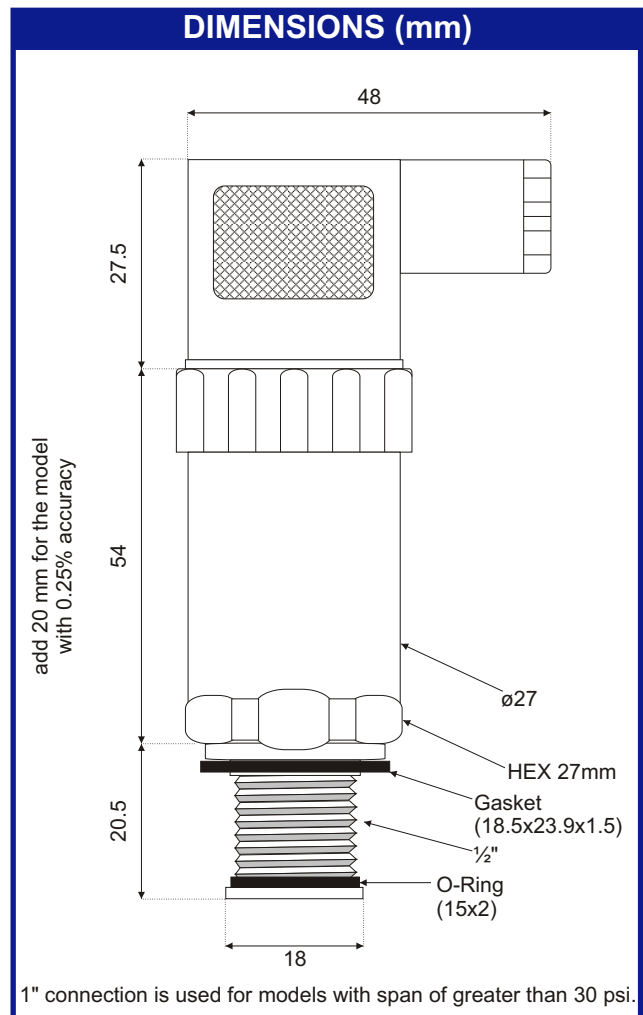
Model PTF115 -

ACCURACY
 0.5% (standard)
 0.25% (option)

FLUSH DIAPHRAGM
 AISI 316 (standard)
 Hastelloy C
 Teflon coated 316 st. steel

OUTPUT SIGNAL
 4 - 20 mA (standard)
 0 - 5 VDC
 0 - 10 VDC
 1 - 6 VDC
 0 - 20 mA

(Local indicator must be ordered separately)



Note: P-1 weld inserts are available for all ranges.
 Indumart reserves the right to change the specifications without prior notice.