



SERIES: PTF118

Thin Film Pressure Sensor

APPLICATIONS

Hydraulics
 HVAC
 Refrigeration
 Food Industry
 Process Tech.
 Water Supply
 Test Bench
 Autoclaves
 Automotive
 Shipbuilding
 Railways
 Engines

- THE MOST COMPACT DESIGN
- COMPLETELY WELDED SENSOR WITHOUT SEAL
- LONG SERVICE LIFE AND GREAT STABILITY
- EXCELLENT ALTERNATING LOAD RESISTANCE
- ST. STEEL HOUSING & PROCESS CONNECTION
- NEGATIVE OR POSITIVE GAUGE PRESSURES
- RANGES UP TO 10000 PSI OR 600 BAR
- ELECTROMAGNETIC PROTECTION



**0.2%
ACCURACY**

INTRODUCTION

Indumart *PTF118 Series* are the most compact industrial grade pressure transmitter in the market with very high accuracy (0.2%) and long-term reliability. They convert pressure inputs to current or voltage signals. The thin-film sensing element of these pressure transmitters are welded to the body; hence don't require additional seals and consequently show an exceptionally high level of resistance to mechanical shocks.

The *PTF118 Series* operate in media temperature of up to 125°C and their typical response time is 1 ms.

The heavy-duty *PTF118* meets the requirements for a great level of electromagnetic compatibility (EMC) protection.

SPECIFICATIONS

Accuracy	±0.2% of full scale
Sensor	17-4 PH st. steel, AISI 630
Housing	AISI 304
Process Connection	¼" NPT male, G¼ male with O-ring, 7/16"-20UNF male
O-ring (media contacting)	NBR, with G¼ male socket only
Pressure Type	Absolute; Positive; Negative
Response time	1 ms typ. (10...90% of scale)
Output Signals	4-20 mA, 0-10 or 0.5-4.5 VDC
Temp. Coefficient	±0.03% / k / FS (typical) ±0.05% / k / FS (maximum)
Medium Temperature	-25...125°C
Ambient Temperature	-25...85°C
Environ. Protection	IP67 or IP65
Vibration	25 g (20...2000 Hz)
Shock	100 g / 11 ms
EMC Emission	EN/IEC61000-6-4
Immunity	EN/IEC61000-6-2
Weight	50 g (0.11 lb)

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

Code	Range	Over Range	Burst Pressure
03	0...2.5 bar	5 bar	50 bar
04	0...4	8	60
05	0...6	12	100
06	0...10	20	200
07	0...16	32	200
08	0...25	50	300
09	0...40	80	300
10	0...60	120	400
11	0...100	200	500
12	0...160	320	750
13	0...250	500	1000
14	0...400	800	1500
15	0...600	1000	2000

22	0...30 psi	60 psi	2500 psi
23	0...60	120	2500
24	0...100	200	2500
25	0...150	300	4500
26	0...200	400	4500
27	0...300	600	4500
28	0...400	800	4500
29	0...500	1000	4500
30	0...600	1200	4500
31	0...750	1500	4500
32	0...1000	2000	7500
33	0...1500	3000	7500
34	0...2000	4000	7500
35	0...3000	6000	7500
36	0...5000	10000	15000
37	0...7500	15000	22000
38	0...10000	18000	30000

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.

Output	Load Resistance	I _{supply}	U _{supply}
4-20 mA	(U _{supply} - 9V) / 0.2 A		24(9...32) VDC
0-10 VDC	≥ 5.0 kΩ	≤ 10 mA	24(15...32) VDC
0.5-4.5 VDC	≥ 2.0 kΩ	≤ 10 mA	5(4.5 - 5.5) VDC

ORDER CODES

Model PTF118 - [] - [] [] []

RANGE

Select a range (03 to 38)

for special ranges use XX. Ex: -100...+400 kPa

PROCESS CONNECTION

1/4" NPT male
G 1/4 male
7/16"-20UNF male

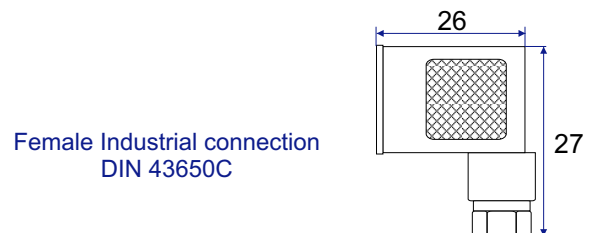
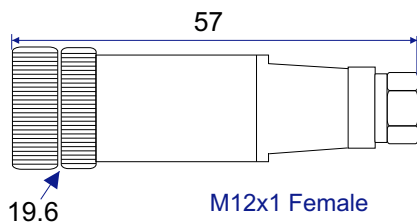
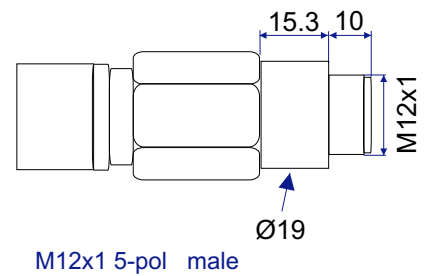
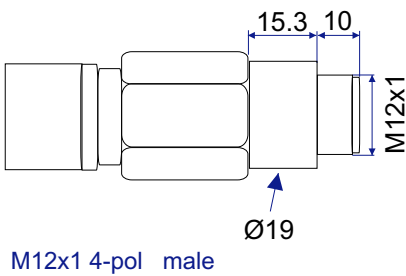
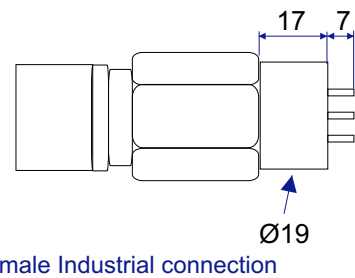
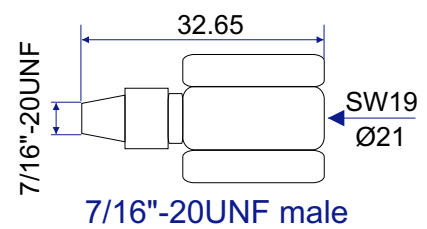
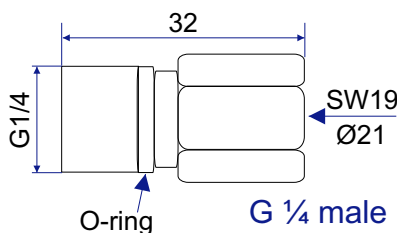
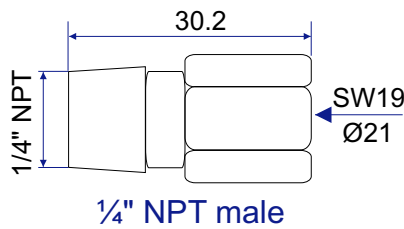
OUTPUT SIGNAL

4 - 20 mA
0 - 10 VDC
0.5 - 4.5 VDC

ELECTRICAL CONNECTION

(male plug or female connector)
Industrial Standard DIN 43650C (IP65)
M12x1 4-pol (IP67)
M12x1 5-pol (IP67)

DIMENSIONS (mm)



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