



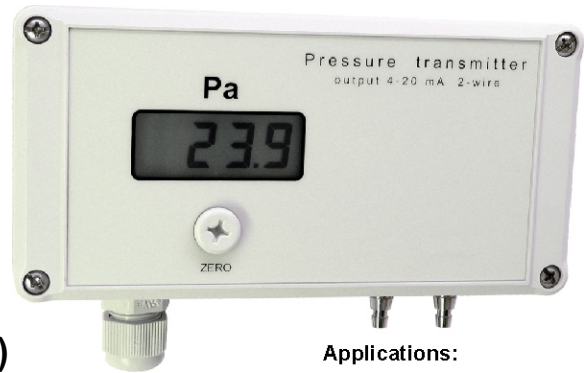
Indicating Pressure Transmitter

Low Pressure Applications

SERIES: PTL45

LOOP POWERED

- > 3½-DIGIT LCD INDICATOR
- > 4-20 mA OR 0-10 V OUTPUT
- > WATER AND DUST PROOF (IP65)
- > AIR VELOCITY MEASUREMENT (OPTION)
- > RANGES AS LOW AS 0.2 IN.H2O (0.5 mbar)
- > 1A RELAY WITH SWITCHING DISPLAY (OPTION)
- > ABSOLUTE, GAUGE OR DIFFERENTIAL PRESSURE



Applications:

- Control of Air Blower
- Supervision of Air Filters
- Cleanrooms & Spray Chambers
- Ventilation Systems
- Medical Engineering
- Liquid Level Control

INTRODUCTION

Indumart PTL45 Series of Pressure Transmitters are two-wire instruments with piezoresistive sensors, which can measure differential, gauge or absolute pressure. They may be specified with square root output for measuring flow velocity of air and non-aggressive gases.

Due to the materials and technology used in the construction of these indicating pressure transmitters, these instruments are excellent in reliability and precision. Their response time is 0.01 second and their enclosures are sealed to IP65 protection class.

Switching output with display and LED for ON/OFF control and 60 seconds delay switching output are optional features of the PTL45 series.

Differential and Gauge Pressure

Code	Range (in. H2O)	Range (mbar)	Range (kPa)	Over Pressure (in. H2O)	Max. Linearity Error (% F.S.)	Max. Temp. Error (% F.S.) 0-50 °C
B	0...0.2	0...0.5	0...0.05	100	0.8	3
C	0...1	0...2.5	0...0.25	100	0.8	2
D	0...2	0...5	0...0.5	100	0.8	1
E	0...4	0...10	0...1	100	0.8	0.5
F	0...10	0...25	0...2.5	140	0.7	0.1
G	0...20	0...50	0...5	140	0.7	0.1
H	0...40	0...100	0...10	140	0.5	0.1
K	0...100	0...250	0...25	300	0.5	0.1
M	0...200	0...500	0...50	600	0.5	0.1
N	0...400	0...1000	0...100	1200	0.5	0.1

Absolute Pressure

Code	Range (in. H2O)	Range (mbar)	Range (kPa)	Over Pressure	Max. Linearity Error (% F.S.)	Max. Temp. Error (% F.S.) 0-50 °C
A	280...440	700...1100	70...110	triple	0.08	0.2

Note: Compound and vacuum ranges are also available.

SPECIFICATIONS

Case	Reinforced technopolymer
Medium	Air and non-aggressive gases
Hysteresis	<0.1% of full scale <2% for the 0.2 in. H2O range
Adjustments	Zero
Output Signals	4...20 mA, 2-wire; 0...10 V
Sensor	Piezoresistive element
Display	3½-digit LCD; 12.7 mm high
Response Time	10 ms
Process Connections	4 mm or 6 mm I.D. tubes
Power Supply	15...30 VDC for current output 15...30 VDC/AC for voltage output 110 & 230 VAC for voltage output
Load (Ω)	20...400 (mA output); >2K (voltage output)
Switching Output	1A @ 230 VAC
Switching Hysteresis	2% v.E.
Electric Connection	0.14-1.5 mm ² wire; Cable gland PG7
Mounting	Wall Mounting
Operating Temperature	-20...+50 °C
Environ. Protection	IP65
Dimensions	160 x 80 x 37 mm (W x H x D)
Weight	200 g (0.44 lb)

ORDER CODE

PLT45-

Output
4...20 mA
0...10 V

Range
Please choose from the Table
(Please use X for special ranges)

Power
24 V (standard)
110 VAC (for voltage output only)
230 VAC (for voltage output only)

Option - more than 1 option may be selected
Switching output with display switching level
60 seconds switching output delay (voltage output only)
Square root output for measuring velocity (voltage output only)
None

A
V
0
1
2
C
D
F
X

