



Pressure Transmitter

Low Pressure Applications

Applications:

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

SERIES: PTL35

- 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)
- ABSOLUTE, GAUGE OR DIFFERENTIAL PRESSURE



INTRODUCTION

Indumart PTL35 Series of Pressure Transmitters with piezoresistive sensors 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.

The transmitters are housed in a robust aluminum case, which result in excellent EMC properties.

SPECIFICATIONS

Case	Reinforced technopolymer
Medium	Air and non-aggressive gases
Output Signals	4...20 mA, 2-wire; 0...10 V
Sensor	Piezoresistive element
Response Time	10 ms
Process Connections	4 mm or 6 mm I.D. tubes
Power Supply	15...30 VDC
Load	20...400 Ω for mA output version >2KΩ for voltage output version
Electric Connection	0.14-1.5 mm ² wire; Cable gland PG7
Mounting	Wall Mounting
Operating Temperature	-20...+50°C
Environ. Protection	IP65
Weight	170 g (0.38 lb)

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	0.5	4
C	0...1	0...2.5	0...0.25	100	1.0	3.5
D	0...2	0...5	0...0.5	100	1.0	2.5
E	0...4	0...10	0...1	100	1.0	1
F	0...10	0...25	0...2.5	140	0.8	1
G	0...20	0...50	0...5	140	0.8	1
H	0...40	0...100	0...10	140	0.8	1
K	0...100	0...250	0...25	300	0.5	1
M	0...200	0...500	0...50	600	0.5	1
N	0...400	0...1000	0...100	1200	0.5	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	0.9	0.2

Note: Compound and vacuum ranges are also available.

