Please refer to page 4 for detailed selection

DPT50

Explosion proof micro differential pressure transmitter

Product Description

The PDT50 series explosion-proof micro differential pressure transmitter is a high-precision and high stability transmitter designed specifically for explosion-proof environments. This differential pressure transmitter is equipped with multiple optional pressure measurement ranges, which can be easily adjusted on site through buttons. It adopts an IP65 protection level housing and is suitable for energy management systems, HVAC, VAV and fan control, environmental pollution control, static pipeline and clean room pressure, smoke hood control, oven pressurization, boiler ventilation control and other fields.

Scope of application

Explosion proof differential pressure transmitters have explosion-proof qualifications and are suitable for hazardous industrial environments with flammable and explosive gases and dust. Widely used in high-risk plant areas such as petroleum, chemical, gas, and coal chemical industries, it can monitor small pressure differentials in pipelines, tanks, and ventilation systems. It is also used for pressure detection of dust removal equipment, boiler air pressure, clean workshops, and oil and gas storage and transportation facilities. High protection level, safe and stable operation, long-term online monitoring, meeting the pressure difference measurement and control and safety operation and maintenance needs in explosion-proof areas.

Features

- Adopting high-precision MEMS micro pressure core, high precision and wide working temperature range
- LCD digital display screen, clear display
- Zero point button available on site, selectable pressure range
- Strong stability and long service life
- IP65 protection level enclosure

✆ 400-860-9760

For more product information, please visit www.ludwig-schneider.com.cn

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Explosion proof micro differential pressure transmitter

Technical Parameters

Measuring medium	Air or neutral gas
range	+100Pa~± 10000Pa (customizable range)
Allow overvoltage	10KPa; 80KPa
accuracy	+1.0%FS
Operating temperature	-20°C~70°C
compensation temperature	-10°C~60°C
Storage temperature	-40°C~80°C
response time	0.5s (default)/1.0s/2s/4s
Protection rating	IP65
Pressure interface	Stainless steel 2-point quick twist interface
output signal	4~20mA/0~10VDC/RS485
power supply	12~30VDC/24VAC+20%
power consumption	≤1.5W
Shell material	cast aluminum
communication	RS-485 standard interface, Modbus RTU protocol
certification program	ROHS certification, CE certification
Explosion-proof rating	Exdb IIC T6 Gb
display mode	LCD digital display
Weight (approximate)	Host: 1238g

When using AC power supply for the product, it is recommended to use isolated AC power supply.

✆ 400-860-9760
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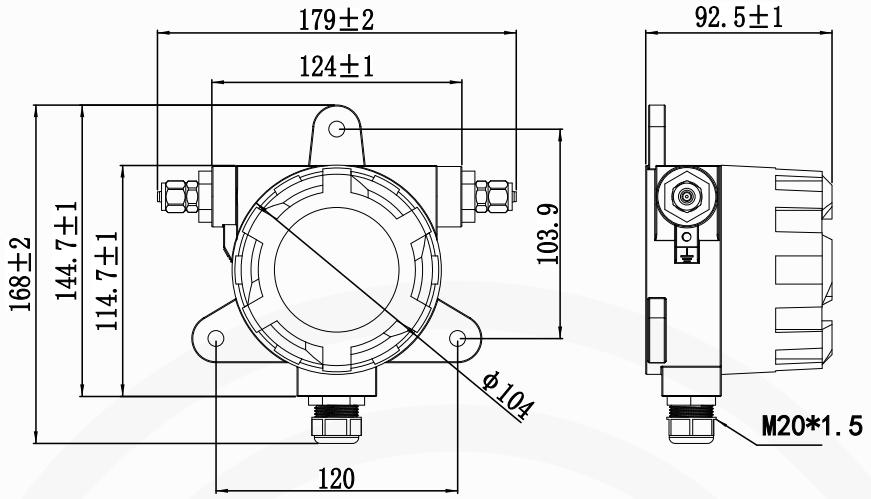
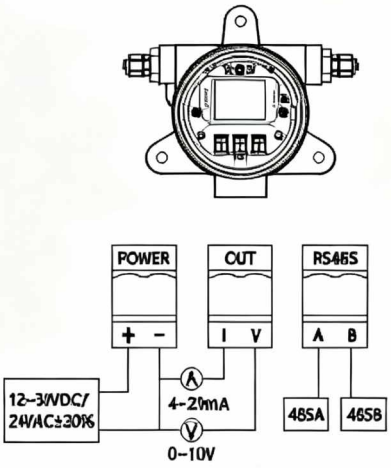
Dimensions (mm)



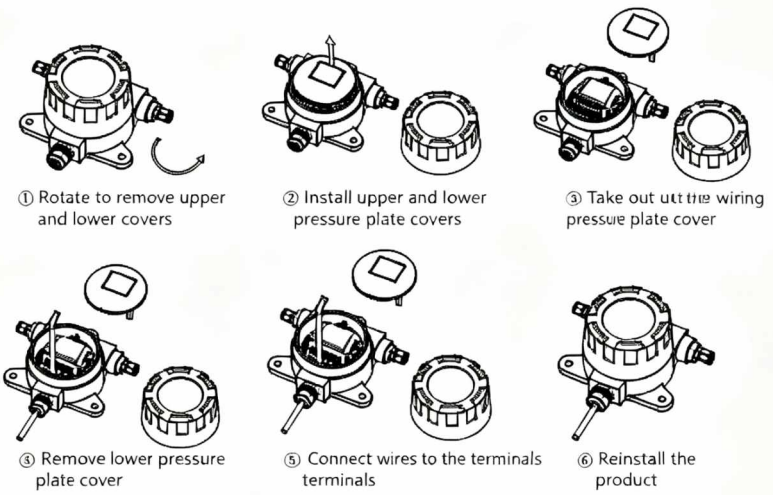
Wiring method

Note: Wiring must be performed by qualified technicians. When wiring, the transmitter must be de-energized.

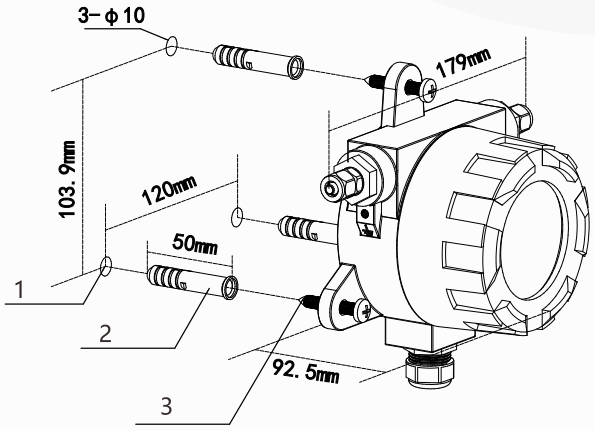


Installation Wiring Steps:

(Note: Wiring diameter D must satisfy 7mm ≤ D ≤ 12mm)



Installation Method



1. Open hole
2. Buried expansion tube
3. Lock the product with screws

DPT50 Explosion proof Micro Differential Pressure Transmitter - Selection and Composition

Example of Selection DPT50 A (1) / K (2)

1. Range of measurement	A	-100Pa~100Pa
	B	-1000Pa~1000Pa
	C	-10000Pa~10000Pa
	R( )	Please note the measurement range
2. Output type	K	4~20mA
	L	0~10VDC
	M	RS-485

Instructions:

The DPT50 explosion-proof differential pressure transmitter has a range of -100Pa~100Pa and an output type of 4~20mA.

Product Certification

Compliance and approval; Rod Weige flowmeter meets key standards and certifications for process measurement technology;Thus ensuring the highest reliability in such settings;

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