

The selection is detailed on page 4



DPT60

Differential Pressure Transmitter

Working principle

The waiting medium pressure is transmitted through the standard process connector and then affects the internal pressure sensor element. Internal electronics convert raw transmitter signals into filtered, amplified, temperature compensated and standardized signals such as 4... 20mA signal, etc. The output signal is transmitted to the next unit for signal processing via standardized connectors or cables.

Product application

- Pharmaceutical industry
- Electronics industry clean room
- Machinery manufacturing industry

Product description

This product is suitable for HVAC, energy management system, VAV and fan control, environmental pollution control static pipeline and clean room pressure, smoke hood control, oven pressurization and furnace risk control and other fields; Working principle: This product detects differential pressure or gauge pressure, and converts this differential pressure into proportional electrical signal output; Medium: suitable for air or neutral gas; With 0~5/10VDC or 4~20mA analog and RS-485 digital output; For building energy management systems that measure the precise pressure and flow required for building pressurization and air flow control; Range from 0 to +100Pa to 0 to 10,000Pa; The static accuracy is +1.0%FS at room temperature. The temperature compensation range is 10~+60°C, and the thermal drift outside the temperature compensation range is less than 0.05%FS/°C. With high performance pressure core, it has the characteristics of sensitive pressure response, stable long-term output and superior temperature performance.

Product description

Output mode

Differential pressure transmitter adopts RS-485 communication circuit and Modbus standard communication protocol. Use the two function codes 0x03 (read hold register) and 0x06 (write a single register) in the protocol for details, see DPT60- Communication Protocol. Among them, the pin is RS-485 A-B line matching resistance jumper, when the communication distance exceeds 300 meters, you can choose to connect the end instrument jumper to reduce the signal reflection interference of the communication circuit. The DPT60 outputs RS-485 digital signals, the DPT62/DPT63 outputs 0-5/10VDC voltage and RS-485 digital signals, and the DPT65 outputs 4-20mA current and RS-485 digital signals.

Reset button

Use this button to calibrate the zero point pressure value when the pressure difference between the positive and negative pressure inlet is zero (when pressed, the LED light lights up at the same time).

Set button

Calibrate pressure values with a pressure source provided by a precision instrument. (Please do not use it easily)

Output response time Settings

The response time of the dip switch is set in the ~ state:

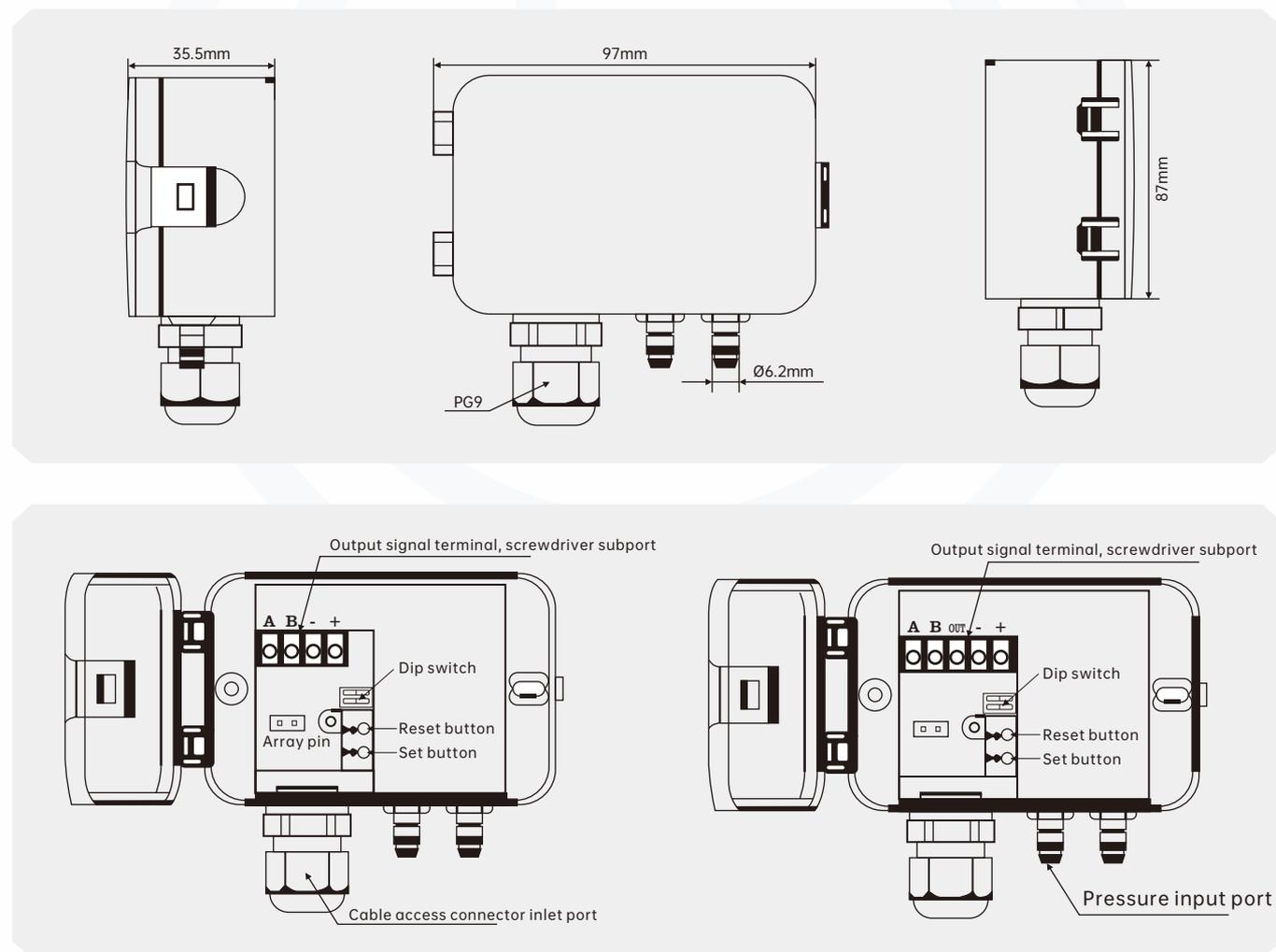
Dip code	0.5s	1s	2s	4s
1				
2				



Technical parameter

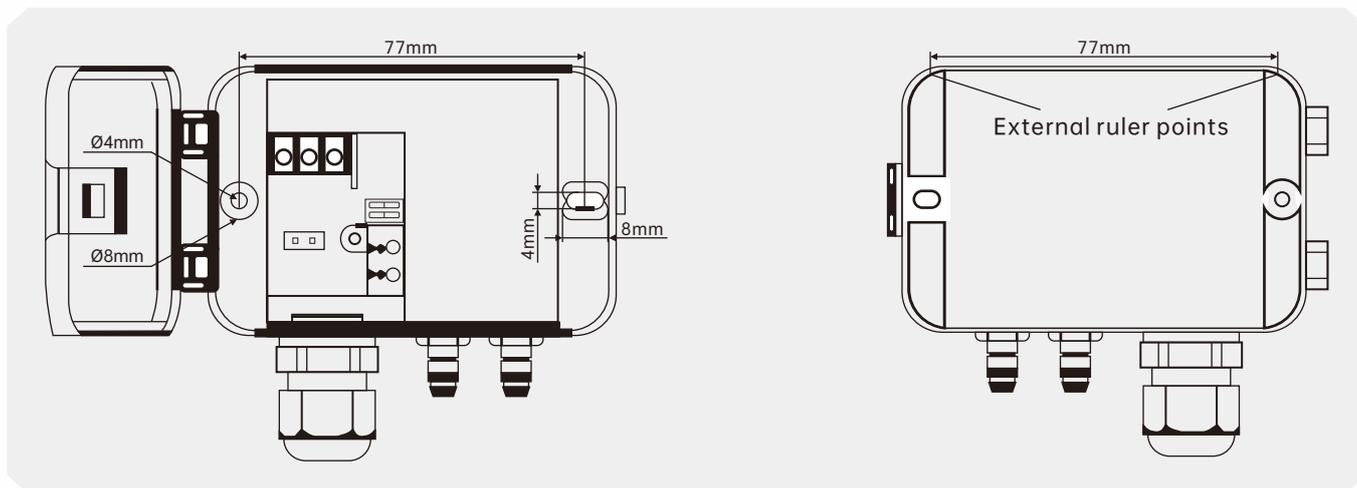
precision	+1.0%FS
Compensation range	-10~ 60°C
Zero/full pass offset %FS/%C	+0.01
Overload pressure	×15
Terminal/Input mode	RS-485/ four-wire system; 0~ 5/10VDC, RS-485/ five-wire system; 4~ 20mA, RS-485/ five-wire system
Excitation voltage/ input voltage	12~ 30 VDC
Operating temperature	-10~ 60°C
Storage temperature	- 40 ~ 85 °C
Output mode	RS-485 Standard Modbus communication protocol, 0~ 5/10VDC, 4~ 20mA
Shell material	Industrial plastics, protection class IP54
Pressure connection	Metal barb connector, Ø6.2mm
Cable joint	Maximum diameter of cable Ø8mm
weight	140g

Size mm

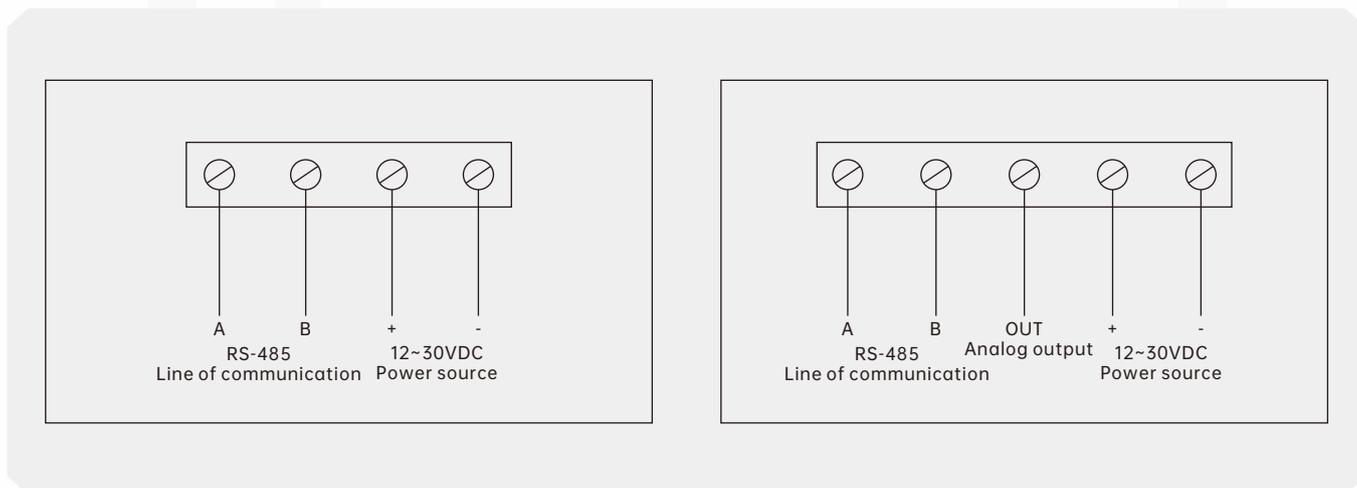


Size mm

First mark the installation hole on the wall with a scale on the back, drill a 30mm Ø6mm wall hole and place the expansion tube (self-tapping screws and expansion tubes are provided with the goods), then open the differential pressure transmitter latch, open the cover, fix the self-tapping screw (ST3.5x25) on the designated position on the wall through the fixing hole of the differential pressure transmitter, and connect the inlet and outlet wires through the waterproof connector. Finally cover the cover.



Connection mode



DPT60-Selection composition

 Selection example **DPT60** **B** **F** **N** **W**
 1 2 3 4

1.Measuring range	A	0~250Pa (one-way)
	B	0~500Pa (one-way)
	C	0~1000Pa (one-way)
	D	0~2500Pa (one-way)
	E	0~5000Pa (one-way)
	F	0~10,000Pa (unidirectional)
	G	0±250Pa (bidirectional)
	H	0±500Pa (bidirectional)
	I	0±1000Pa (bidirectional)
	J	0±2500Pa (bidirectional)
	K	0±5000Pa (bidirectional)
	L	0±10,000Pa (bidirectional)
	2.Precision class	F
3.Output signal	N	RS-485
	O	RS-485、0~5VDC
	P	RS-485、0~10VDC
	Q	RS-485、4~20mA
	S	4-20mA
	T()	Other
4.Installation mode	W	wall-mounted

Instructions:

DPT60 differential pressure transmitter, measuring range: 0~500Pa, accuracy level is ±1.0%FS, output signal RS-485, wall-mounted.

Product Certification

Compliance and approval; Rodewieg pressure gauges meet key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;