DPT108 Differential Pressure Transmitter

Summary:

DPT108 differential pressure transmitter detects differential pressure or gauge pressure then converts this pressure difference to a proportional analogue output signal. Two output signals are offered: 0~10VDC, and 4-20mA. DPT108 differential pressure transmitter ranges from 0～±50Pa to 0～±10000Pa.

These transmitters boast their outstanding performance, high quality and economical pricing

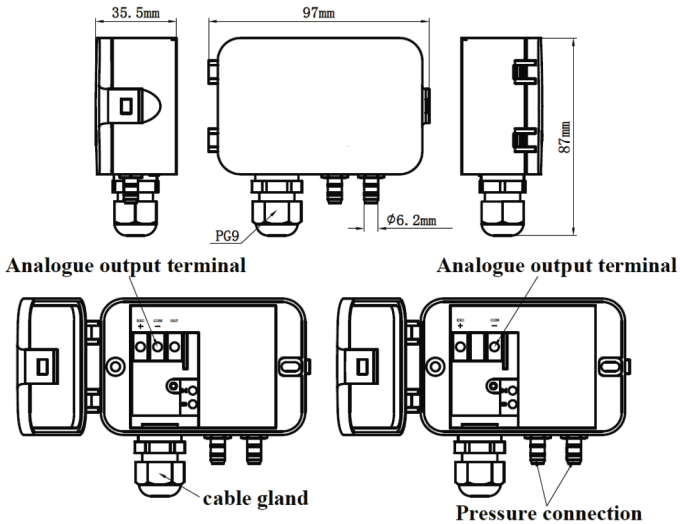
Features and Characteristics:

- **Application:**
- Heating, Ventilation and Air Conditioning (HVAC)
- Energy Management System
- Static Duct Pressure
- Clean Room Pressure
- Over Pressurization and Furnace Draft Control
- Media: Air and neutral gases

Pressure range table

0~100Pa	0~±50Pa
0~250Pa	0~±100Pa
0~500Pa	0~±250Pa
0~1000Pa	0~±500Pa
0~2500Pa	0~±1000Pa
0~5000Pa	0~±2500Pa
0~10,000Pa	0~±5000Pa
	0~±10,000Pa

Other pressure ranges are selectable



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Specification

Accuracy	±1.0%FS
Compensated temperatures	-10～+60℃
Zero/Full range deviation %FS/℃	±0.01
Over pressure capacity	×15
Output signal	0～5/10VDC\3-wire
	4～20mA\2-wire
Supply voltage	0～5/10VDC\12～30VDC
	4～20mA\10～30VDC
Ambient temperature	-10～60℃
Housing	Industrial plastic, fire resistance level per UL94-V0
Pressure connection	Ribbed Ø6.2mm
Cable gland	Cables Ø8mm maximum
Protection standard	IP54

Functions

- Analogue output

Both 0～5/10VDC and 4～20mA output selectable. Three wires for voltage output（wiring follow the mark）while two wires for current output

- Zero Button

Push the zero button to calibrate when the differential pressure between positive port and vacuum port reach to zero (the LED would light when the button be pushed)

- Setting Button

Set the pressure under precise instrument (customers not encouraged to use)

- Output Response Time Setting

Dial-up switch response time in following arrangement

Dial-up Switch	0.5s	1s	2s	4s
1 2				

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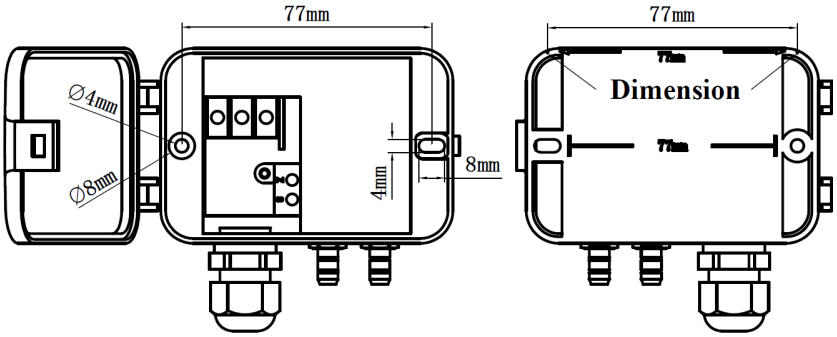
Installation

Locate position for installation then drill holes (30mm depth with 6mm diameter). Place expand plug inside the holes before install the transmitter. There are two holes for screwing after uncovering the transmitter (expand plugs and screws for installation would be provided by the manufacturer)



Order ref table

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Unidirectional	Bidirectional	Output
101G = 0-100Pa	051D = 0±50Pa	AL = 4～20mA
251G = 0-250Pa	101D = 0±100Pa	VL = 0～10VDC
501G = 0-500Pa	251D = 0±250Pa	VZ = 0～5 VDC
102G = 0-1000Pa	501D = 0±500Pa	
252G = 0-2500Pa	102D = 0±1000Pa	
502G = 0-5000Pa	252D = 0±2500Pa	
103G = 0-10,000Pa	502D = 0±5000Pa	
	103D = 0±10,000Pa	