

DPT Series Differential Pressure Transmitter

SPECIFICATION



Application

The DPT series differential pressure transmitter uses a dead-ended stainless steel welded capacitive sensing element that requires minimal amplification and delivers excellent accuracy and long-term stability in critical installations. It offers pressure range as low as +/-50Pa and up to 0~10kPa. Typical applications include:

- HVAC
- Building Automation
- Environment Protection
- VAV and valve control
- Filtering system and fans control
- Clean room pressure and duct wind velocity monitor

Features

- All Stainless-Steel Capacitance Sensor
- Excellent Thermal Stability and Long-Term Stability
- Reverse Excitation Protection
- Foldable Cover Design; Easy wiring and maintenance

Technical Specification

Performance

Accuracy	
(RSS at Const. temp)	±1.0%FS
Working temp. range	0...50 °C
Working temp. range	0...95%RH(non-condense)
Storage temp. range	-10...+70 °C
Thermal Effects (Zero/Span)	±0.06%FS/°C
Long Term Stability	±1.0%FS/Year
Position Effects	±0.6%FS(max.)
Response Time	<20ms (63%FS)
Pressure Media	Air, Non-conductive or Non-corrosive Gas
Pressure Inlet	external Ø3/16(4.8mm)
Electrical Connection	pluggable terminal strip
Chassis Material	Poly Carbonate (UL 94 V-0)
IP Grade	IP65
Weight	about 220g
Certification	CE

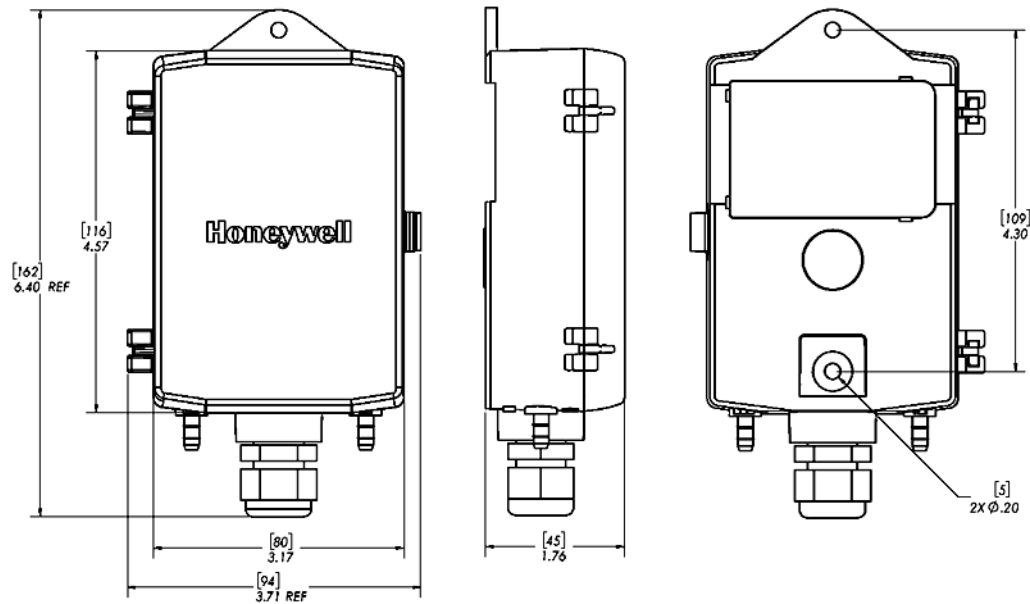
Electrical

Excitation (Voltage)	12...30 VAC/VDC
Excitation (Current)	9...30 VDC
Impedance (Voltage model)	100 Ohm
Load Resistance (Current model)	0...800 Ohm

Installation Notes

- Vertical mounting on vibration isolated surface is preferred, DO NOT mount the product with its cover facing downward
- To eliminate zero error fine adjust the zero potentiometer after installation is allowed
- Signal wire routing should be isolated with high voltage or power line
- DO NOT use high pressure air to test/clean the pressure tubing & pressure ports
- DO NOT calibrate the product when a high accuracy pressure standard is not available

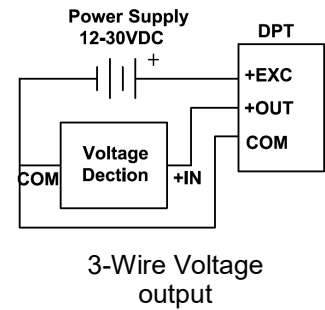
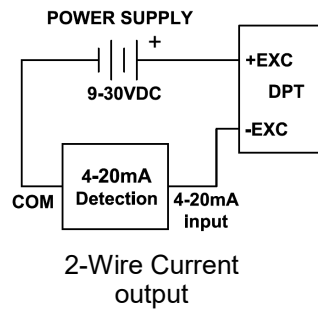
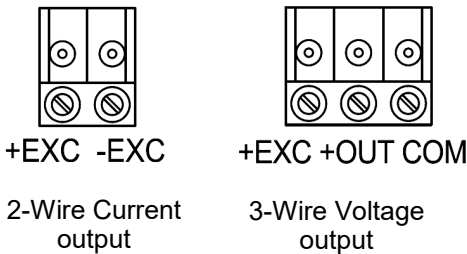
Size [mm] Inch



Installation

Terminal

Wiring Diagram



Ordering

SKU	Description	SKU	Description
DPT0050U2-A	DP Transmitter, -50...0...+50 Pa, 4~20mA	DPT0250U1-A	DP Transmitter, 0...+250 Pa, 4~20mA
DPT0050U2-B	DP Transmitter, -50...0...+50 Pa, 0~10V	DPT0250U1-B	DP Transmitter, 0...+250 Pa, 0~10V
DPT0100U2-A	DP Transmitter, -100...0...+100 Pa, 4~20mA	DPT0500U1-A	DP Transmitter, 0...+500Pa, 4~20mA
DPT0100U2-B	DP Transmitter, -100...0...+100 Pa, 0~10V	DPT0500U1-B	DP Transmitter, 0...+500 Pa, 0~10V
DPT0500U2-A	DP Transmitter, -500...0...+500 Pa, 4~20mA	DPT1000U1-A	DP Transmitter, 0...+1000 Pa, 4~20mA
DPT0500U2-B	DP Transmitter, -500...0...+500 Pa, 0~10V	DPT1000U1-B	DP Transmitter, 0...+1000 Pa, 0~10V
DPT1000U2-A	DP Transmitter, -1000...0...+1000 Pa, 4~20mA	DPT2500U1-A	DP Transmitter, 0...+2500 Pa, 4~20mA
DPT1000U2-B	DP Transmitter, -1000...0...+1000 Pa, 0~10V	DPT2500U1-B	DP Transmitter, 0...+2500 Pa, 0~10V
DPT0100U1-A	DP Transmitter, 0...+100 Pa, 4~20mA	DPT5000U1-A	DP Transmitter, 0...+5000 Pa, 4~20mA
DPT0100U1-B	DP Transmitter, 0...+100 Pa, 0~10V	DPT5000U1-B	DP Transmitter, 0...+5000 Pa, 0~10V
		DPT0010T1-A	DP Transmitter, 0...+10000 Pa, 4~20mA
		DPT0010T1-B	DP Transmitter, 0...+10000 Pa, 0~10V

Honeywell

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 Subject to change without notice.