HSDP2-A Series

Air Differential Pressure Transmitter

Honeywell HSDP2-A series Air Differential Pressure Transmitters are mainly used to measure air differential pressure or gauge pressure. They are applied to air pressure control of central air-conditioning air system, VAV and fan control, environmental pollution control, pressure difference control of clean room, smoke hood control, oven pressurization and boiler ventilation control, etc.

Features

- High-precision MEMS micro-pressure core body.
- Wide temperature range compensation and sensitive pressure response.
- Manual zero pressure value correction can be performed on site.
- Screwless clamshell buckle design for easy wiring and setting.

Order Information and Technical Specification

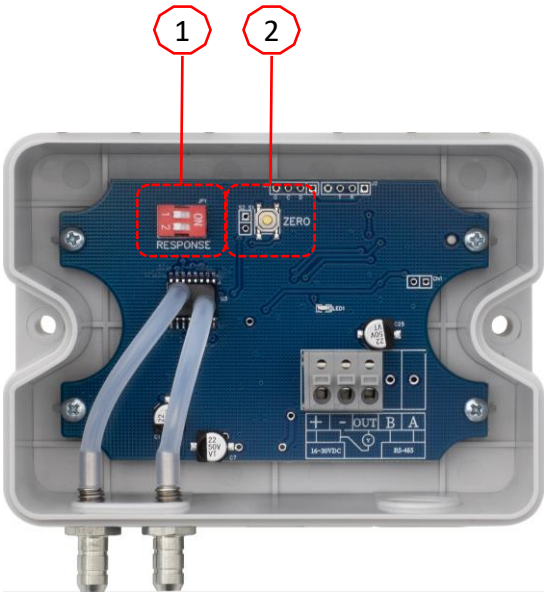
SKU	Max measuring range (Pa)	Output signal
HSDP2-A500A1	0 to 500	4-20mA
HSDP2-A500V1	0 to 500	0-10V
HSDP2-A500A2	-500 to 500	4-20mA
HSDP2-A500V2	-500 to 500	0-10V
HSDP2-A1000A1	0 to 1000	4-20mA
HSDP2-A1000V1	0 to 1000	0-10V
HSDP2-A1000A2	-1000 to 1000	4-20mA
HSDP2-A1000V2	-1000 to 1000	0-10V

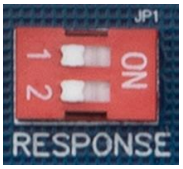
Basic Parameters

Accuracy	0-500Pa： ±1.0%FS* @ 25℃
	Others：±1.0%FS （within Compensation Temperature Range）
Stability	Typical value：0.1%FS / Year，Max value：0.2%FS / Year
Compensation Temperature Range	-10℃ to +60℃
Applicable Medium	Air and Neutral Gas
Medium Temp. Range	-20℃ to +70℃
Operation Environment	-20℃ to +70℃， 0 to95%RH （Non-condensing）
Storage Environment	-40℃ to +70℃， 0 to95%RH （Non-condensing）
Power Supply	0-10V ： 16 to 30VDC 4-20mA： 10 to 30VDC
Power Consumption	≤1.5W
Operation Current	0-10V ： < 20mA 4-20mA： 4-20mA
Max Circuit Load	4-20mA：≤[(U-10V)/0.02A] Ω； 0-10V：≥10kΩ
Reaction Time	0.5S, 1S, 2S, 4S (DIP setting)
Overload Pressure	Maximum 15 times the rated pressure or 10KPa, subject to the above minimum pressure
Protection Standard	IP65（EN 60529）
Housing Material	Housing： PC Core sealing ring: Silicone Rubber
Accessory	2 meters PVC hose
Certification	CE（EN IEC 61000-6-1: 2019; EN IEC 61000-6-3:2021); RoHS

*** FS is the abbreviation of Full scale.**

Functions and Parameter Settings



#	Function	Large picture
1	Reaction time setting	
2	Manual Zero Reset	

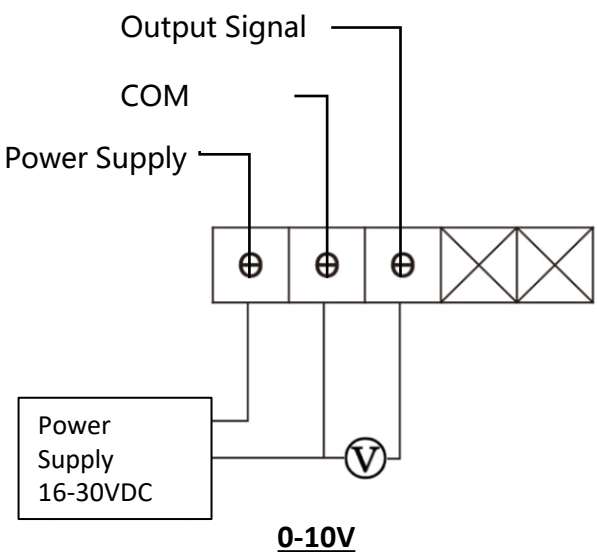
Manual Zero Reset

When the pressure difference between the positive and negative pressure inlets is zero, use this reset button to calibrate the zero pressure value. When the reset button is pressed, the LED lights up at the same time.

Reaction Time Setting

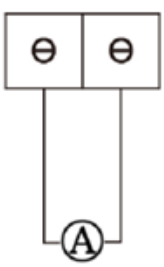
DIP Switch	0.5s	1s	2s	4s
1 2				

Wiring



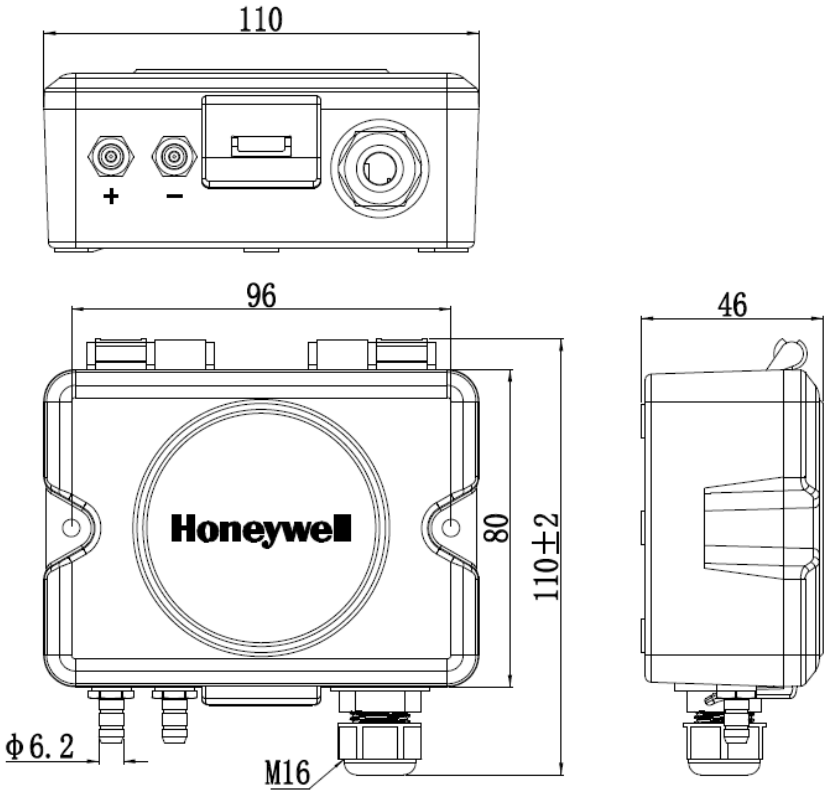
0-10V

The two connection terminals of 4-20mA output are non-polar, and the power input and signal output terminals are not defined.



4-20mA

Dimension (mm)



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