kahan controls
HVAC - R Controls & Technologies

KC-DPT Differential Pressure Transmitter

FEATURES

- Adopt high-precision MEMS sensor, wide temperature compensation, sensitive pressure response
- Set the zero calibration button to save installation time and facilitate later maintenance
- Strong stability and long service life
- Compact size for easy installation



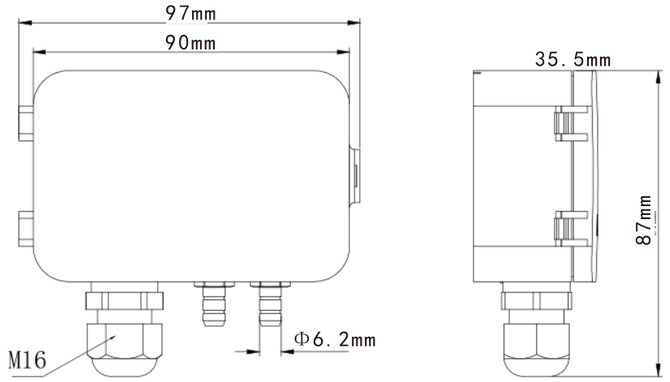
DESCRIPTION

KC-DPT differential pressure transmitter is used to detect differential pressure or gauge pressure, and convert this differential pressure into proportional signal output. It can output 0~5/10VDC , 4~20mA or RS485 digital signal. This product is used in building energy management system to measure the precise pressure and flow required for building pressurization and air flow control. Also suitable for heating, ventilation and air conditioning (HVAC), energy management systems, VAV and fan control, environmental pollution control, static piping and clean room pressure, fume hood control, oven pressurization and furnace ventilation control.

SPECIFICATION

Testing Medium	Air or neutral gas			
Pressure Range	±100Pa，±1000Pa，±10000Pa			
Overload Pressure	Maximum 15 times the rated pressure			
Accuracy	±1%F.S			
Stability	Typical value: 0.1%F.S Maximum value: 0.2%F.S			
Working Temp	-20℃~70℃			
Compensation Temp	-10℃~60℃			
Storage Temp	-40℃~70℃			
Response Time	0.5s/1.0s/2s/4s			
Protection Grade	IP54			
Pressure Interface	Metal barbed interface, Ø6.2mm			
Electrical Connection	2-wired	3-wired	4-wired	5-wired
Output Signal	4-20mA	0-5V 0-10V	RS485	0-10VDC RS485
Power Supply	10-30VDC	16-30VDC	12-30VDC	16-30VDC
Power Consumption	≤1.5W			
Shell Material	UL94-V0/PC and ABS industrial plastics			
Communication	RS-485 standard interface, Modbus RTU protocol			
Certificaton	RoHS certification, CE certification			
Electromagnetic Compatibility	EN 61326-1			
Weight	140g			

DIMENSION (mm)



ORDER REF NO.

Code and description					Remark
KC-DPT					Model
	101D	101D=0±100Pa	101G	101G=0-100Pa	Measuring Range G means unidirectional, D means bidirectional
	102D	102D=0±1000Pa	102G	102G=0-1000Pa	
	251D	251D=0±250Pa	103G	103G=0-10000Pa	
	252D	252D=0±2500Pa	251G	251G=0-250Pa	
	051D	051D=0±50Pa	252G	252G=0-2500Pa	
	501D	501D=0±500Pa	501G	501G=0-500Pa	
	502D	502D=0±5000Pa	502G	502G=0-5000Pa	
	103D	103D=0±10000Pa			
		AL	4~20mA		Output Type
		VL	0~10V		
		VZ	0~5V		
		MOD	RS485		
		MVL	RS485,0~10VDC		
		MVZ	RS485,0~5VDC		
KC-DPT	101G	AL			Selection Example