

M Series Differential Pressure Transmitter

DESCRIPTION: M Series Low Differential Pressure Transmitters are engineered for building automation in the HVAC/R industry , pressure and flow monitoring, and low differential pressure test in industry application.

FEATURES & TECHNICAL DATA

- Differential pressure range can be set on request
- Input voltage : 16~30Vac/Vdc
- Output signal : 0~10V and 4~20mA (2 wire output, can be used at the same time)
- LCD backlight digital display
- Auto zero calibration when switch on
- Manual zero calibration
- ABS industrial plastic cover, IP65protection
- Rotation is fixed on the backboard



Specification:

Range	M1: -100~+100Pa Minimum 0~+10Pa
	M2: -1000~+1000Pa Minimum 0~+100Pa
	M3: -3400~+3400Pa Minimum 0~+100Pa
	M4: -10,000~+10,000Pa Minimum 0~+1000Pa
Accuracy	±1.0%FS
Pressure unit	Pa, mmH2O, mbar, inWG, mmHG, daPa, KPa, hPa
Output signal	0~5VDC, 0~10VDC, 4~20mA, RS-485
	Analog signal: current type 2-wire , voltage type 3-wire, current and voltage type 6-wire; Digital signal: RS-485 4-wire
Supply voltage	2-wire output:supply voltage is 16~30VAC/VDC,can be collocated with 24VDC adaptor(3.5x1.35mm) Current type 2-wire output:supply voltage is non-polarized 12~30VDC.(The positive pole and negative pole of voltage can be connected in a contrary way)
	Voltage type 3-wire output:supply voltage is 16~30 VAC/VDC.
	RS-485 4-wire output: supply voltage is 12~30 VAC/VDC
Power consumption	≤1.5W
① non-polarized:Theinput power is not divided into positive or negative	

Mechanical Specification

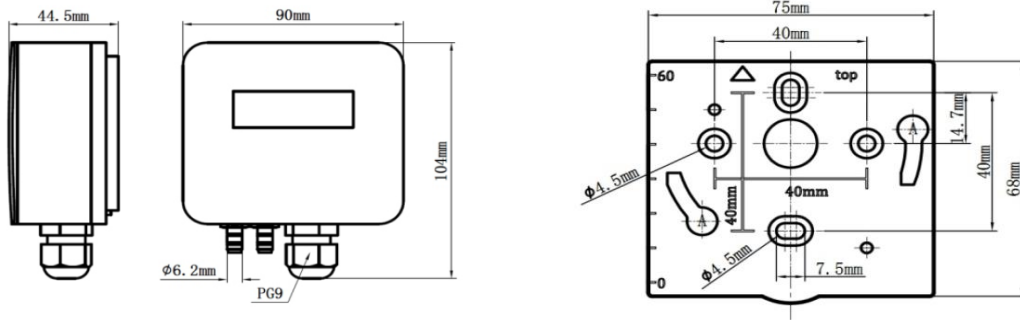
- Material : industrial plastic, flame retarded rating: UL94-V0
- Protection Grade : IP65
- Display : LCD display, 50 x 22.5 mm
- Number Height : test value at 10 mm , unit at 5 mm
- Pressure Connection : metal barb connection, Ø 6.2 mm
- Cable Connection : max diameter: Ø 8 mm
- Weight : 140g



Transmitter Function:

Response Time	0.5s, 1s, 2s, 4s
Resolution	M1: 0.1Pa, 0.01mmH2O, 0.01mbar, 0.01dapa, 0.001hPa
	M2: 1Pa, 0.01mmH2O, 0.01mbar, 0.004inWG
	M3: 1Pa, 0.01mmH2O, 0.01mbar, 0.004inWG,
	M4: 0.007mmHG, 0.1dapa, 0.001KPa, 0.01hPa
Zero Calibration	Manual with push button or automatic at starting for zero calibration
Media	Air and neutral gases
Tolerated Overpressure	4.5KPa (M1); 15KPa (M2) ; 60KPa (M3); 150KPa (M4)
Operating Temperature	-10~+60°C
Storage Temperature	-10~+70°C

Technical Drawings



Dimensions are in mm

Nomenclature	M	A-B-C-D
Span (A)	1	-100~100Pa
	2	-1000~1000Pa
	3	-3400~3400Pa
	4	-10000~10000Pa
Display (B)	1	With Display
	2	Without Display
Output (C)	1	4~20mA, 0-5/10VDC
	2	4~20mA (2 wire)
	3	0~10VDC (3 wire)
	4	0~5VDC (3 wire)
Accuracy (D)	1	+/- 1.0%FS

Specification Summary:

General	Value
Accuracy	+/- 1.0%FS
Unit	Pa, mmH2O, mbar, inWG, mmHG, daPa, hPa
Output Signal	0~5/10VDC and 4~20mA simultaneous output
Supply Voltage	16~30VDC/16~30VAC
Power Supply	1.5W
Response Time	0.5s, 1s, 2s, 4s
Resolution	M1: 0.1Pa, 0.01mmH2O, 0.01mbar, 0.01dapa, 0.001hPa M2: 1Pa, 0.01mmH2O, 0.01mbar, 0.004inWG M3: 1Pa, 0.01mmH2O, 0.01mbar, 0.004inWG, M4: 0.007mmHG, 0.1dapa, 0.001kPa, 0.01hPa
Zero Point adjustment	Automatic with autozero element or with push button
Measuring Unit	Air or neutral gas
Operating Temperature	-10~60°C
Storage Temperature	-10~70°C
Over Pressure Capacity	M1: -100~100Pa -4500~4500Pa M2: -1000~1000Pa -15000~15000Pa M3: -3400~3400Pa -60000~60000Pa M4: -10000~10000Pa -150000~150000Pa

Conversion: 1in W.C. = 249Pa 1MPa = 100Pa

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Manufacturer of Advanced Technology
 Level and Pressure Transmitters



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