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Features

- Thermal mass sensing for differential pressure
- High sensitivity at low pressure, low zero drift, range ± 10 , ± 25 , ± 50 , ± 100 Pa
- Supports square root function for analog output
- 2" LCD with easy button setup
- Analog output with RS-485 / Relay
- Compact metal housing, easy to install
- Resolution up to 0.05

| Applications |

Industrial / Agricultural / Ceramics & Glass / Chemical / Transportation / Technology / Energy / Environmental / Factory Automation / Pharmaceutical / Food & Beverage

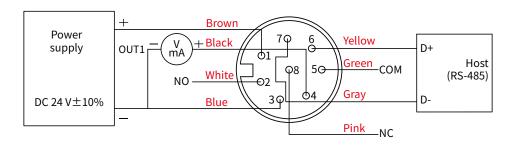


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| Specification |

Input		Electrical	
Measuring element	Thermal mass type	Power supply	DC 24 V $\pm 10\%$
Input	Differential	Current consumption 24 V : 60 mA	
Measuring range	$\pm 10, \pm 25, \pm 50, \pm 100 \text{Pa}$	Relay capacity	Max current : 6 A
			Max voltage : DC 24 V (DC 36 V Max)
Output		Electrical connection	M12 8P connector
Output	4 20 mA / 0 10 V / Relay / RS-485		
Signal connection	M12, 3-wire	Installation	
Warm-up time	60 sec	Installation	Compatible with Ø8 PVC
Response time	t90 ≦ 6 sec		PTFE pneumatic tubing
Load resistance	Current output : ≦500 Ω		
	Voltage output : ≧10 KΩ	Display	
		Display readout	Diffe. pressure value with two decimal places
Communication		Decimal point	Button
Communication methods & protocol	RS-485 Modbus RTU	Sampling time	1 cycle/sec
RS-485 baud rate	9600\19200\38400\57600\115200 bps	Diffe. pressure unit	Pa, mbar, hPa, kPa, mmWS, inH ₂ O, mmHg
		Response time adjustment range	0.5 300 sec
Accuracy			
Accuracy	$\pm (1\%$ F.S. + 0.1 Pa)	Certification	
Temp. influence	±0.5% F.S./°C	Certification	CE
Environmental		Protection	
Medium	Air	IP rating	IP65(Housing)
Operating Temp. & Humid.	0 50°C / 20 90%RH(Non-condensing)	Electrical protection	■ Reverse polarity ■ Over-voltage
Storage Temp.	-25 +60°C		
Operating pressure	16 bar	Material	
		Housing	Aluminum alloy / Plastic
		Weight	207 g

Diagram



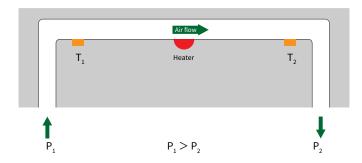
^{*}Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.



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| Hot-wire Type Differential Pressure Principle |

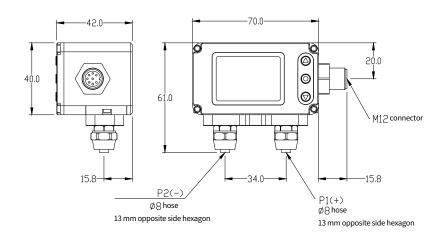
Hot-wire type differential pressure measurement technology calculates the pressure difference by measuring the air flow rate. When there is a pressure difference between two measurement points, air flows from the high-pressure side to the low-pressure side through a channel inside the transmitter. The channel contains a heating element and two temperature sensors. By comparing the heating and temperature changes, the air flow rate can be precisely measured, which in turn allows the calculation of the pressure difference. This technology can detect extremely low air flow rates, making it possible to precisely measure small pressure differences. Additionally, hot-wire type measurement technology has the characteristic of low zero-point drift, meaning the transmitter can maintain a stable initial zero point even after prolonged use, ensuring measurement precision and reliability.



| Pressure Unit Conversion Table |

Unit	Pa	mbar	hPa	kPa	mmWS	inH₂O	mmHg
Range	±10	0.1	0.1	0.01	1	0.04	0.075
	±25	0.25	0.25	0.025	2.5	0.1	0.1875
	±50	0.5	0.5	0.05	5	0.2	0.375
	±100	1	1	0.1	10	0.4	0.75

| Dimension | Unit:mm





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Ordering Guide

Output **Electrical connection** Range 10 PMM06-DM: M12 connector 02:±10 Pa 2:4 ... 20 mA+RS-485+Relay 05: ±25 Pa 3:0...10 V+RS-485+Relay 10: ±50 Pa 20: ±100 Pa

| Additional Option Test Report | For more detailed information please contact us.

ISO 9001

Project	Measurand level or range
Pressure	Differential pressure : 0 500 Pa / 0 1000 Pa / 0 10000 Pa