

MEMS Gas Mass Flow Meter

KMF1000



KMF1000 series digital gas mass flow meter is made of micro- electromechanical system (MEMS) flow sensing chip, suitable for a variety of purposes of clean, relatively dry nature of the small flow gas measurement and process control, unique packaging technology makes the product to meet the different ranges of flow measurement, to ensure high sensitivity, high reliability, high stability and low cost. It is based on a MEMS flow sensing unit and a high precision digital processing and calibration circuit (MCU). The integrated $\Delta-\Sigma$ A/D converter and the logic circuit with internal calibration function and MCU processor together ensure the real-time effective acquisition of the sensing signal, to obtain the accurate flow signal, and the corresponding compensation algorithm processing in the internal, so there is no need to do any external calibration and compensation to ensure high-precision flow output.

Specifications

Series 1000 Mass Flow Meter				
Type	KMF1005		KMF1008	KMF1019
DN(mm)	5		8	19
Flow Range(SLPM)	0-25	0-50	0-250	0-1000
Supply Power(VDc)	7-24 VDc, 50 mA			
Accuracy	$\pm 1.5\%$ F.S			
Repeatability	0.25%			
Turndown Ratio	1:100			
Response	67 msec			
Max Pressure	0.5 Mpa			
Serial Com	RS485(modbus)			
Output	1-5 VDc			
	4-20 mA			
Display	SLPM(Instant Flow) / SL(Accum Flow)			
Temp.	$-10\sim 65^{\circ}\text{C}$ (Fluid)			
	$-25\sim 85^{\circ}\text{C}$ (Ambient)			
Humidity	$<100\%$ RH			
Weight	0.245 kg	0.215 kg	0.396 kg	
Port	NPT 1/4-F	G 3/8-F	NPT 3/4-M	
Calibration	Air, 20°C , 101.325kPa			



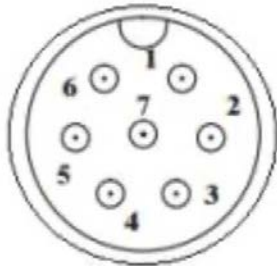
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Wiring Description



No.	Color	Function
1	Red	Power Supply (+)
2	Black	Power Supply (-)
3	Blue	RS485(A)
4	Green	RS485(B)
5	Yellow	V out
6	Brown	4 - 20 mA

Dimension

