

# 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

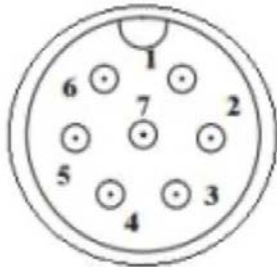
Series 1000						
Type	KMF1002	KMF1005	KMF1008	KMF1019	KMF1025	
Orifice DN(mm)	2	5	8	19	25	
Flow Range(SLPM)	0.5~50CC	0~25	0~50	0-250	0-1000	20-2000L
Supply Power(VDc)	7-24 VDc, 50 mA					
Accuracy	±1.5% F.S					
Repeatability	0.25%					
Turndown Ratio	1:100					
Response	67 msec					
Max Pressure	0.5 Mpa					
Output	RS485(modbus)					
	1-5 VDc					
	4-20 mA					
Display	SLPM(Instant Flow) / SL(Accum Flow)					
Temp.	10~65°C (Fluid)					
	-25~85 °C (Ambient)					
Humidity	<100%RH					
Weight	0.190 kg	0.210 kg	0.215 kg	0.220 kg	0.380 kg	
Port	G1/8"-F	NPT1/4"-F	G3/8"-F	NPT3/4"-M	G1"-M	
Calibration	Air, 20°C, 101.325kPa					

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### Wiring Description



No.	Color	Function
1	Red	DC24 ( + )
2	Black	DC24 ( - )
3	Blue	RS485(A)
4	Green	RS485(B)
5	Yellow	1-5 V out
6	Brown	4 - 20 mA out
7	White	GND

### Dimension

