



## LF6000 Series Microfluidic Flow Meters

### The Products

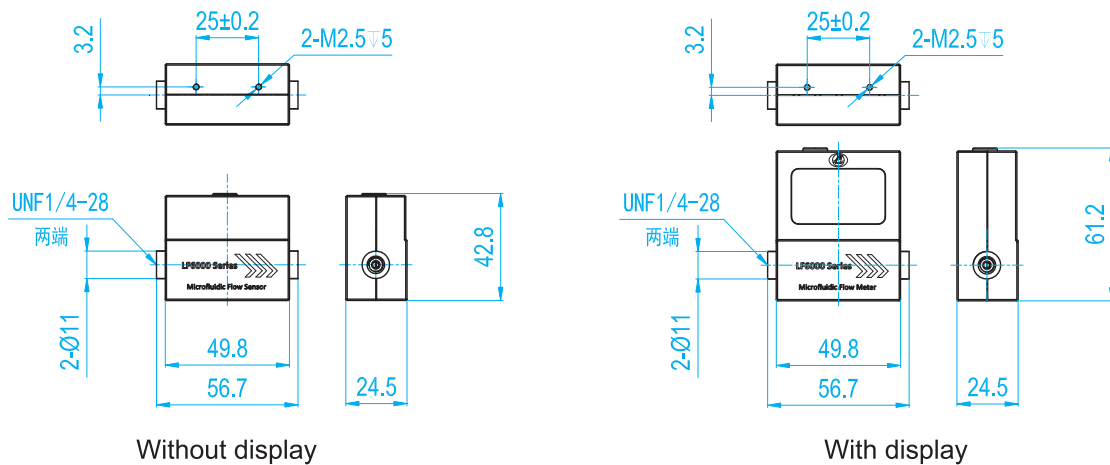
**LF6000 series** microfluidic flow meters are manufactured using Siargo's proprietary MEMS thermal time-of-flight (TTOF) flow sensing and package technology. It provides the large dynamic range, with high precision and reliability.

The packaging enclosure is made of the chemically inert and thermally stable PEEK materials. The maximum over pressure rating is 10 bar (145 psi). Applications include general purpose microfluidic flow metering, instrumentation, pharmaceutical process control; precise chemical dosing, genetic sequencing, laboratory & research as well as medical automation.

### Features

- ⦿ MEMS Thermal time-of-flight technology
- ⦿ Large dynamic range over 100:1
- ⦿ Excellent temperature performance
- ⦿ UNF 1/4"-28 for plug-and-play
- ⦿ Small dead volume less than 7mL
- ⦿ Bluetooth LE enabled with Cloud data option

### Mechanical Dimensions



## Specifications

	Value	Unit
Full scale flow range*	2 ... 50 / 100 ... 400	mL/min
Turn-down	100:1	
Accuracy	$\pm(2.0+0.5FS)$	%
Working temperature	5 ~ 50	°C
Temperature effects	< 0.02	%/°C
Pressure rating	8	bar
Maximum pressure	10	bar
Dead volume	< 7.0	$\mu$ L
Power supply	3.6 ~ 6.0	Vdc
Electrical interface	I2C/ 0.25~2.75 Vdc/IO-Link optional	
Wireless	Bluetooth 4.2 with APP and optional cloud data	
Response time	<100	msec
Display	OLED	
Mechanical connection	1/4" - 28 (0~50mL/min); NPT or customized (0~400mL/min)	
Wetted materials	Polyphenylsulfone, PEEK, SiNx, and stainless steel	
Reference conditions	20°C, 1013 mbar; DI water	
Storage temperature	-10 ~ +70	°C
Weight	<230	gram
Protection	IP40	
CE/RoHS	EN61326-1; -2;-3	

\*Note: The minimal flowrate measurable is 50 $\mu$ L/min.

## Pin Definition



Yellow	I <sup>2</sup> C: SCL
Black	GND
Red	Vin (3.6~6.0Vdc)
Green	Vout (0.25~2.75Vdc)
Blue	I <sup>2</sup> C: SDA

## Product Selection

