



MEMS Mass Flow Meters

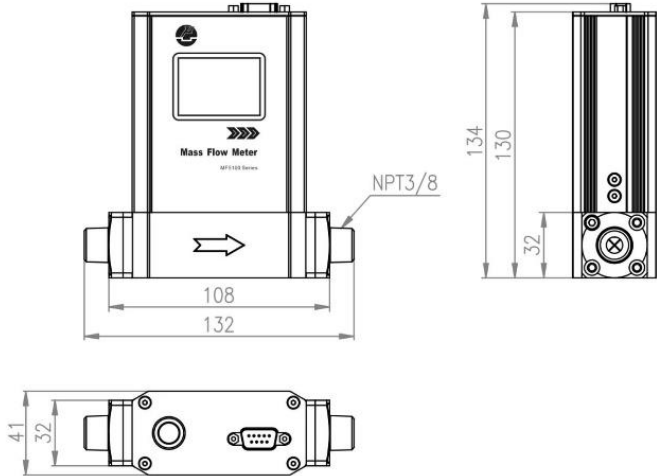
With large dynamic range

MF5100 Series

MF5100 series mass flow meters are designed for a large dynamic range (200:1) and high accuracy of 1.5% of reading in flow metering and control applications. With Siargo's proprietary MEMS mass flow sensing technology, the meter can automatically recognize the registered gases and be powered with a lithium-ion battery for long-lasting operation. The current models can be readily applied to applications with multiple gas process control and flow efficiency calibration, as well as applications requiring mobile power.

MF5100 can measure a flow up to 100 SLPM. The connectors can be fully customized.

Dimensions



Note: The current three models have the identical mechanical dimensions.

Siargo Ltd.
Santa Clara, California
www.Siargo.com
408.969.0368
info@Siargo.com



Specifications

Flow range	0~30 (MF5106) / 0~50 (MF5108) / 0~100 (MF5110)	SLPM
Initial flow rate	0.01 / 0.01 / 0.02	SLPM
Accuracy	±1.5	%
Repeatability	0.25	%
Response time	250	msec
Long term stability	< 1.0	%/year
Power supply	D-Cell 19Ah lithium ion / 8~24 Vdc (external)	
Battery life	> 2	Year
Output*	LCD / Digital: RS485 / Pulse	
Pressure rating	1.0	MPa
Burst pressure	1.5	MPa
Temperature	-10 ~ 55	°C
Humidity	<95 (no condensation)	%RH
Pin-out	DB9	
Mechanical connection	NPT – M 3/8"	
Calibration	Air @ 20°C, 101.325 kPa	
Weight	< 1.0	kg
Storage temperature	-20 ~ 70	°C

- Note:**
- Parameters specified at the calibration conditions.
 - RS485 Modbus / pulse output requires an external power model. 4~20mA and voltage output are optional.