



MF5100

Gas Mass Flow Meter

Production description

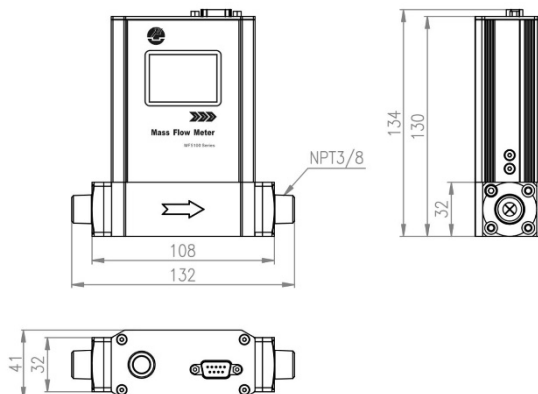
MF5100 series mass flow meters are designed for a large dynamic range (200:1) and high accuracy of 1.5% of reading in flow metering and control applications. With Siargo's proprietary MEMS mass flow sensing technology, the meter can automatically recognize the registered gases and be powered with a lithium-ion 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.

Features

- MEMS thermal mass flow meter
- Excellent rangeability 200:1 with integrated multiple sensing elements
- High accuracy of 1.5% reading
- Fast response time
- Battery-powered with the long-lasting operation
- Fully customizable connectors

Mechanical dimensions



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

Specifications

Flow range	0~30 (5106) / 0~50 (5108) / 0...100 (5110)	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
Mechanical connection	BSPT ¼" or One-touch 4 / 6 / 8mm	
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: 1. Parameters specified at the calibration conditions.

2. RS485 Modbus / pulse output requires an external power model. 4~20mA and voltage output are optional.

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