# **MASS FLOW METER USER MANUAL**

## Description

EMF5700 series mass flow meters are designed for general purpose flow metering and control applications enabled by IoT or wireless data while having the mobile power option. With Siargo's proprietary MEMS mass flow sensing technology and smart electronic circuitry, the products offer unprecedented cost-effectiveness with performance. The sensors directly measure mass flow with a very low pressure loss, opt with various wireless transmissions, and control ON/OFF valve. The current models can be readily applied to many process applications. EMF5700 can measure a flow up to 250 SLPM. The mechanical connectors can be fully customized.

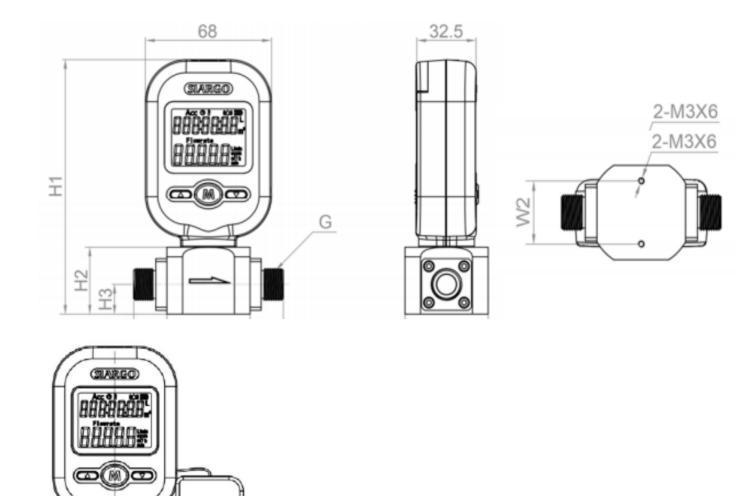
### **Features**

- 1. ncrease model EMF5708 0~100L/min
- dd optional LoRa wireless control module 2.
- dd valve control module to the whole series 3.
- he national standard G thread is added to the full range of interfaces 4.
- 5. pgrade the motherboard, RS485 communication is more smooth and convenient
- 6.Parameters can be configured via buttons
- 7. With over-range alarm indication function
- 8.Portable design, battery power supply and external power supply can be switched at will
- G thread or NPT thread connection, easy to install and use, other interfaces can also be customized

according to customer needs



### **Mechanical Dimensions**



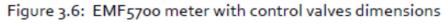
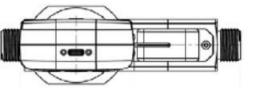


Table 3.3: Mechanical dimensions of the meters/meters with control valves

LV2

LV1

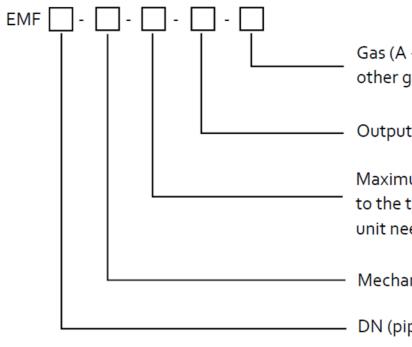
	Connector, G	Lı	L2	LV1	LV2	Wı	W2	Hı	H2	H <sub>3</sub>
EMF5706	BSPP 1/4"	61	34	95.5	123	34	25	127	28	12.5
EMF5708	BSPP 3/8"	81	45	110	134	45	30	134	35	15.5
EMF5712	BSPP 1⁄2″	90	50	115	143	45	30	141	42	19.5



# **Specifications**

	EMF5706	EMF5708	EMF5712	Unit	
Full-scale flow range	0~20	0~100	0~250	SLPM	
Accuracy		±(2.0+0.5FS)		%	
Repeatability		0.5		%	
Turn-down ratio					
Response time	ponse time <2.0			sec	
Working temperature	-10~55			°C	
Maximum pressure	o.8			MPa	
Humidity	<9	%RH			
Maximum overflow	100	200	400	SLPM	
Maximum flow change	15	30	60	SLPM/sec	
Pressure loss	0.6	1.0	2.0	kPa	
Power supply	4-AA ba				
Power consumption	Power consumption >60 (on batteries)			day	
Power / data interface	USB Type-C				
Digital output RS485 Modbus half-duple			duplex		
Wireless options	LoRa / WIFI / NB-IoT / BT LE				
Display	ay LCD				
Resolution	o.o1 L/min				
Mechanical connection	BSPP 1/4 or NPT 1/4"	BSPP 3/8" or NPT3/8"	BSPP 1/2" or NPT/ 1/2"		
Storage temperature		-20 ~ 70		°C	
Reference conditions	20°C, 101.325 kPa, air				
Protection		IP50			
Fluid compatibility	Non-corrosive				
CE	EN61326-1; -2; -3				

# Product model



Model	DN (mm)	Connection	Maximum full-scale flow rate			
		Connection	SLPM	SCFH	NCMH	
EMF5706	6.o	BSPP 1/4" or NPT 1/4"	20	40	1.2	
EMF5708	8.o	BSPP 3/8" or NPT 3/8"	100	200	6	
EMF5712	12.0	BSPP 1/2" or NPT 1/2"	250	500	15	

Gas (A - air; C - CO<sub>2</sub>; N - N<sub>2</sub>; O - O<sub>2</sub>; R- Ar, for other gases, please contact the manufacturer.

Output (B - RS485 Modbus).

Maximum full scale flow rate (for other units refer to the table below). If the unit is not SLPM, the unit needs to be specified here.

Mechanical connection (G - BSPP; N - NPT)

DN (pipe inner diameter: 06, 08 or 12 mm)