

# Mass Flow Products - Gas Flow Meters MF5700 Series



## MF5700 Series Portable Gas Flow Meters

### The Products

**MF5700 series mass flow meters** feature cost effective ultra low power operating on 4 AA batteries. The portable design has excellent exchangeable mechanical adaptors, easy data accessible and user programmable capabilities. The internal data storage can also help for many industrial on-site applications. The meters can be customized for various general purpose flow applications.



Mechanics



Food



Tobacco



Chemistry



Beverage



Glass



Agriculture



Research



Pharmaceutics

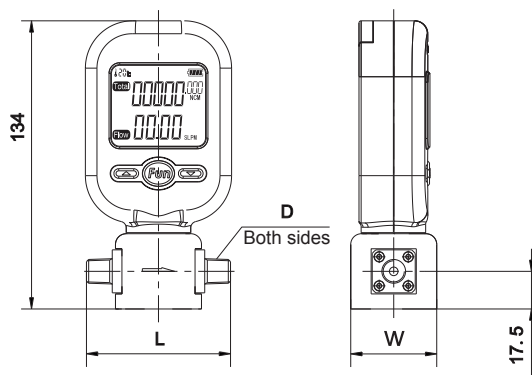


Instrumentation

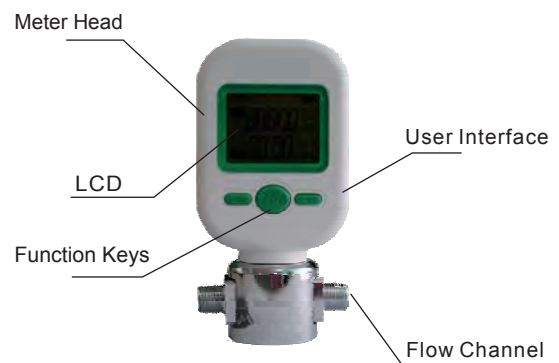
### Features

- ✎ Ultra low power by batteries or optional external AC adaptor
- ✎ Potable design with rotatable meter head and easy exchangeable mechanical adaptors
- ✎ Customizable flow range with over 30:1 turn-down
- ✎ RS485 Modbus protocol ready for networking
- ✎ User programmable range alarm for safety and other monitoring/control functionality
- ✎ Internal data storage for additional data safety
- ✎ Hygienic and oxygen safe copper body for various fluids

### Mechanical Dimensions



	L	W	D
MF5706	67	40	NPT 1/4
MF5712	98	50	NPT 1/2



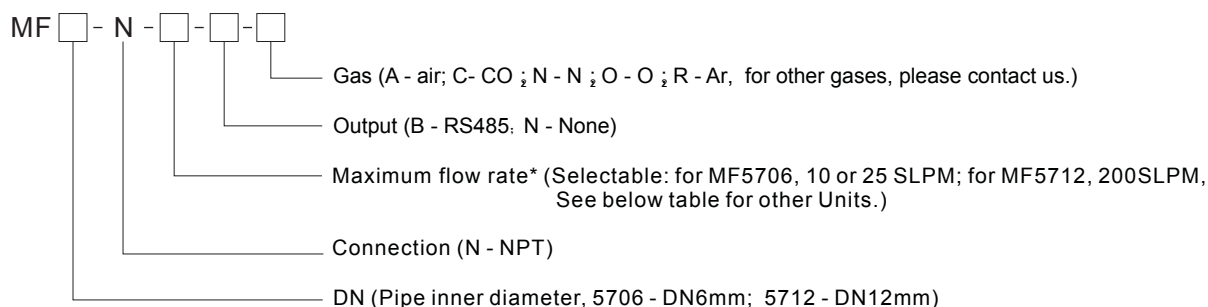
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## Specifications

Parameter	MF5706	MF5712	Unit
Flow Range	0 ~ 10 , 25	0 ~ 200	SLPM
Turn-down ratio	30:1		
Accuracy	± (2.0+0.5FS)		%
Repeatability	0.5		%
Response Time	≤2		sec
Power Supply	4 AA batteries ( LR6 ) / 6 ~ 15 Vdc ( with 220 Vac adaptor)		
Output	RS 485 (Optional)		
Display	LCD		
Display Units	Instant flow rate: SLPM; Flow accumulation: NCM		
Display Instant flow rate	0.01	0.1	SLPM
Resolution Flow accumulation	0.001		NCM
Continuous Working time	> 60 days (with batteries)		
Max. Pressure	≤0.8		MPa
Working Temperature	-10 ~ +55		°C
Storage Temperature	-20 ~ +65		°C
Humidity	< 95%RH (No icing or condensation)		
Keyboard	3 keys		
User Interface	miniUSB		
Calibration	Air @ 20 C, 101.325 kPa		
DN	6	12	mm
Mechanical Connection	NPT 1/4	NPT 1/2	
Weight	350		g

Note: the above parameters are applicable at 20°C and 101.325kPa.

## Product Selection



\* There is flow rate number only for unit SLPM. If other unit is selected, there must be flow rate number with unit together.  
For CO<sub>2</sub>, selectable: 10 or 20 SLPM (without 25 SLPM) for MF5706; 150 SLPM (without 200 SLPM) for MF5712.

### Typical flow range:

Model	DN	Connection	Flow Range		
			SLPM	SCFM	NCMH
MF5706	6mm	1/4"	10	0.35	0.6
			25 (20*)	0.88 (0.7*)	1.5 (1.2*)
MF5712	12mm	1/2"	200 (150*)	7 (5*)	12 (9*)

\* The flow range for CO<sub>2</sub>.