

In-line Mass Flow Meters

MF Series In-line
Mass Flow Meters

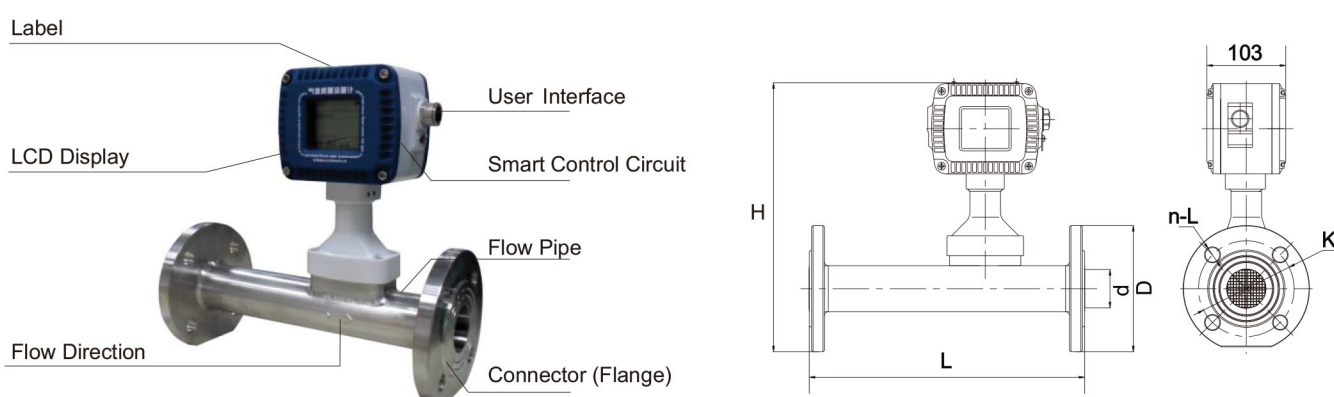
The Products

MF series In-line flow meters are designed for all purpose industrial gas metering and control. The meters provide direct mass flow information as well as well-designed user friendly interfaces (RS485/4~20mA/pulse etc.) for data process. The series cover the DN range from 25 to 100 mm with an accuracy of $\pm(1.5+0.5FS)\%$ or better depending on the requests. The meters can work at an environment of -20 to 60C and pressure up to 1.5 MPa. The package ensures hygienic safety and can be used for beverage and food industrial gas process such as CO₂. Other applications include special gas monitoring in steel process, hydrogen flow control in chemical industry, process gases (oxygen, nitrogen, helium, compressed air or argon) monitoring in manufacture, to name a few.

Features

- ✎ Directly sense mass flow using thermal mass flow principle
- ✎ Proprietary MEMS sensor design for better reliability
- ✎ Standard 8 ~ 24 V power supply
- ✎ Low pressure loss reducing energy cost
- ✎ Industrial standard communication ports for easy networking and remote control
- ✎ Large data storage capability for data log and analysis
- ✎ Hazard proof (Ex ia IIC T4) or Class I Division I, (Zone 0) Groups A-D

Mechanical Dimensions



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Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China

Tel: + 86-755-83289036

Fax: + 86-755-83289052

E-mail: sales@isweek.com

In-line Mass Flow Meters

Model	Connection	DN (mm)	L	H	D	d	K	n-L	Ref. Standards
MF25	F	25	300	315	115	25	85	4 - ϕ 14	GB/T-9116.1-2000
MF32	F	32	300	326	140	32	100	4 - ϕ 18	
MF40	F	40	300	330	150	40	110	4 - ϕ 18	
MF50	F	50	360	344	165	50	125	4 - ϕ 18	
MF65	F	65	360	362	185	65	145	8 - ϕ 18	
MF80	F	80	400	374	200	80	160	8 - ϕ 18	
MF100	F	100	400	396	220	100	180	8 - ϕ 18	

Specifications

Accuracy	$\pm(1.5 + 0.5 FS)\%$
Flow Range	0.01 ~ 65 Nm/sec (e.g. DN50: 0.06 ~ 400 Nm ³ /hr)
Environment	Temperature: -20 ~ + 60°C Humidity: < 95%RH(No icing or condensation)
Display	Flow rate and accumulated flow
Data Storage	Accumulated flow; flow rate; max. 3000 items
Calibration	Air @ 20 °C; 101.325 kPa
Protection	IP65
Ex Proof	Ex ia IIC T4

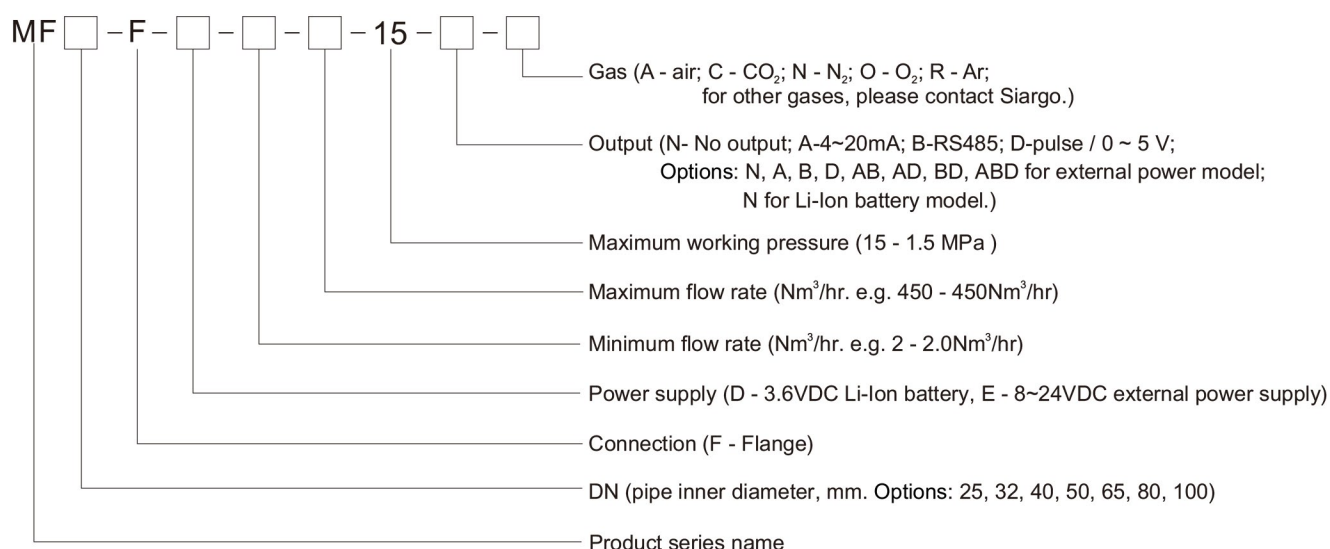
Note: the above parameters are applicable at 20°C and 101.325kPa.

Model	Max. flow rate**	Min. flow rate
MF25	100	1.0
MF32	160	1.6
MF40	250	2.5
MF50	400	4.0
MF65	650	6.5
MF80	1000	10
MF100	1600	16

** For CO₂, Max. flow rate will be 0.75 times as the table.

Product Selection

In addition to the models listed, we can also provide customized products that are tailored to customers' very needs. For further information, please contact manufacturer. The meters are made by referencing to: ISO-14511; CE Directives: EN61000-6-1 EN61000-6-2



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