



MEMS Mass Flow Meters

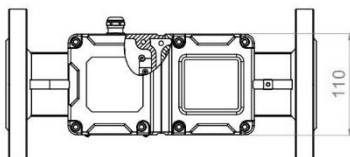
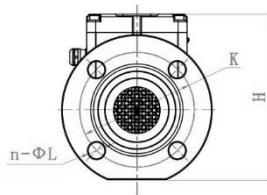
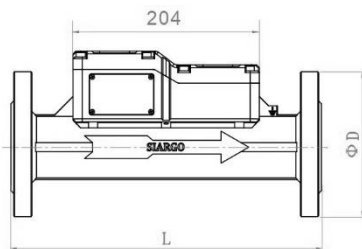
For low pressure applications

MF-GD Series

MF-GD series utility gas mass flow meters were first introduced in 2009 and the current version is the 3rd generation of the company's MEMS utility gas meters designed for city natural gas metering. The current upgrades include automatic gas recognition, a new mechanical design with a flanged connection, better power management, and enhanced long-term reliability. The products are also deployed for control and improvement of burner efficiency using natural gases.

MF-GD covers most of the models for commercial city gas metering applications.

Dimensions



	L	H	ΦD	n-ΦL	ΦK
MF25GD	300	156	Φ115	4-Φ14	Φ85
MF40GD	320	175	Φ150	4-Φ18	Φ110
MF50GD	340	181	Φ165	4-Φ18	Φ125
MF80GD	340	215	Φ200	8-Φ18	Φ160

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Specifications

Accuracy	$\pm(1.5+0.25FS)$	%
Rangeability	100:1	
Pressure rating	0.2	MPa
Temperature, gas	-20 ~ 65	°C
Temperature, environment	-40~60	°C
Humidity	<95 (no condensation)	%RH
Power supply	2 x D-Cell lithium-ion, 19Ah (L3638A)	
Battery life	> 36	Month
Realtime clock	10	Year
Output	RS485 Modbus or pulsed with 8~24Vdc	
Mechanical	Flanged	
Protection	IP66	
Hazardous rating	Ex ia II C T ₄	
Calibration	Air @ 20°C, 101.325 kPa	
Storage temperature	-20 ~ 70	°C

Product selection

Model	DN (mm)	Flow range (m ³ /h)			
		-1	-2	-3	-4
MF25GD	25	0.10~10	0.16~16	0.25~25	0.40~40
MF40GD	40	0.25~25	0.40~40	0.65~65	--
MF50GD	50	0.40~40	0.65~65	0.80~80	--
MF80GD	80	1.00~100	1.60~160	--	--

Note: For other gases and flow ranges, please contact the manufacturer. For example, if applied to CO₂ measurement, a model selection can be MF25GD-30-B-C: 30 is the maximum flow rate (80% of air); and B for RS485 Modbus; C for CO₂.