



## MEMS Mass Flow Meters

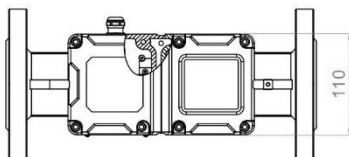
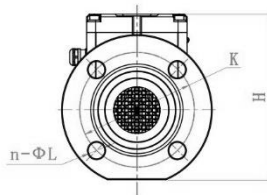
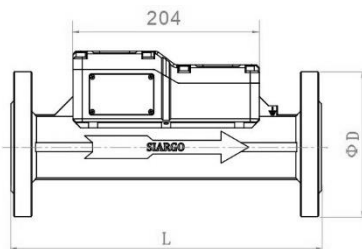
For low pressure applications

MF-GD Series

**MF-GD series utility gas mass flow meters** were first introduced in 2009 and the current version is the 3<sup>rd</sup> 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 <sub>4</sub>	
Calibration	Air @ 20°C, 101.325 kPa	
Storage temperature	-20 ~ 70	°C

## Product selection

Model	DN (mm)	Flow range (m³/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 CO<sub>2</sub> 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 CO<sub>2</sub>.