MFGD

Digital Gas Flow Meter

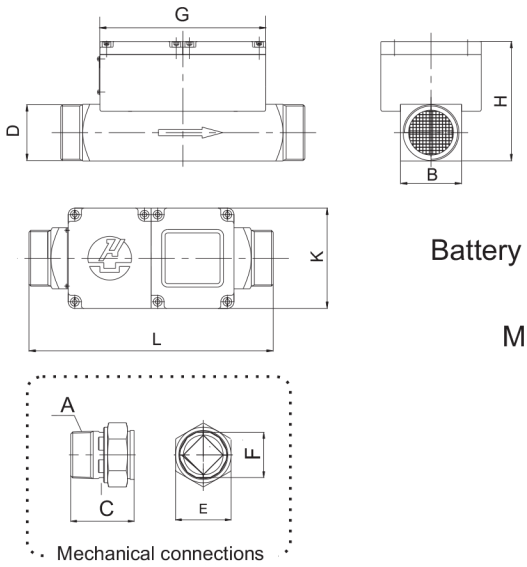
The Products

These Low Pressure Series gas meters are designed for natural gas metering where turbines and diaphragm gas meters have traditionally dominated the market. This design of thermal mass meter substantially reduces the metering accuracy losses caused by temperature and pressure variations in the system, as they compensate electronically for this volumetric expansion/contraction using patented MEMS technology. Calibration cerificates are supplied with these meters. Other advantages over competing turbine models in the market include, Lower pressure drop and replaceable battery. In addition, these meters provide on-board data logging as well as remote data networking capabilities and BMS integration.

Features

- Specially designed for Natural gas metering
- Automatic compensation for temperature and pressure variations
- Integrated MEMS sensors for extended rangeability
- Proprietary low power technology ensures long lasting battery life
- Large onboard data logging storage for easy historical download /analysis
- All meters ready for BMS integration, data access and networking

Mechanical Dimensions



Model	D	B	L	H	K	G	C	E	F	A
MF32GD	M48X2	70	280	132	115	188	80	55	40	R2
MF50GD	M64X2	70	280	137	115	188	80	70	57	R2
MF65GD	M80X2	90	360	162	115	188	120	90	72	R2½
MF80GD	M100X2	100	360	172	115	188	150	110	86	R3

Notes:1 Each flow meter is supplied with two connectors then the total length should be L + C * 2.

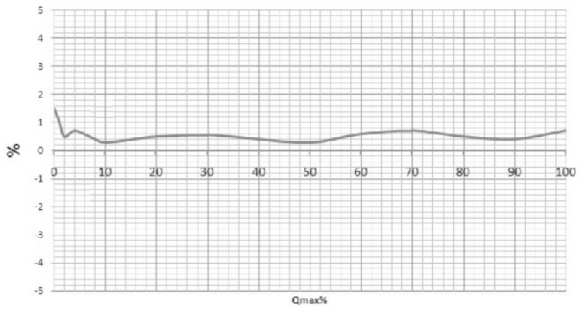
2 For MF65GD and MF80GD, the Connector with flow conditioner should be installed in the inlet

Specifications

Applications	Model	DN (mm)	Qmax Flowrate (Nm^3/hr)	Qmin Flowrate (Nm^3/hr)	Initial Flowrate (Nm^3/hr)	Accuracy		Max. Pressure (Bar)	Pressure loss at full scale (mBar)	Pulse Output (Nm^3/Pulse)
						0.1Qmax≤ Q≤Qmax	Qmin≤ Q<0.1Qmax			
Natural gas	MF32GD10	32	10	0.1	0.05	±1.5	±3.0	5	0.8	0.1
	MF32GD16	32	16	0.16	0.05	±1.5	±3.0	5	1.5	
	MF32GD25	32	25	0.25	0.05	±1.5	±3.0	5	3	
	MF50GD40	50	40	0.4	0.1	±1.5	±3.0	5	1	
	MF50GD65	50	65	0.65	0.1	±1.5	±3.0	5	2	
	MF65GD100	65	100	1.0	0.2	±1.5	±3.0	5	2.5	
	MF80GD160	80	160	1.6	0.2	±1.5	±3.0	5	3	
Liquefied petroleum gas	MF32GD10A	32	10	0.1	0.05	±1.5	±3.0	5	0.8	
	MF50GD25A	50	25	0.25	0.1	±1.5	±3.0	5	0.5	
	MF65GD40A	65	40	0.4	0.2	±1.5	±3.0	5	0.5	
	MF80GD65A	80	65	0.65	0.2	±1.5	±3.0	5	0.5	

Environment Temperature	-20 ~ +60 ℃
Medium Temperature	-10 ~ +55 ℃
Humidity	< 95%RH (No icing or condensation)
Power Supply	Li-Ion battery L3638A
Battery life	36 months
Real time clock life	10 years
Output	RS485, Pulse
LCD display	Flowrate; Accumulated flowrate; Battery status
Calibration	Air (20℃,1.01 Bar)
Mechanical	BSP Thread or customer specified

Error Function



Pressure loss