

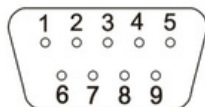


Mass Flow Meter for Gases Model MF5100



This product is designed for general-purpose gas mass-flow measurement, with a metal package for high-pressure compatibility, and is powered by a lithium-ion battery for applications where the external power is not preferred or readily available. The product offers multi-gas compatibility.

- Mass flow meter
- Metal package
- Battery powered
- External power optional
- Laboratory
- Process lines



Wire	Color	Definition
1	Purple	4~20 mA, output
2	Brown	RS485B (-)
3	Transparent	Analog output, 0~5Vdc
4	Yellow	Pulse, output
5	White	Pulse or 4~20mA, ground
6	Blue	N.C.
7	Green	RS485A (+)
8	Black	Ground, Common
9	Red	Power supply, 12-24Vdc



Specifications

	Value	Unit
Full-scale flow range	See Table 7.1	SLPM
Accuracy	±1.5	%
Repeatability	0.5	%
Turn-down ratio	100:1	
Working temperature	-10 ~ +55	°C
Maximum pressure	1.0	MPa
Burst pressure	1.5	MPa
Humidity	<95, no condensation	%RH
Power supply	12~24 (50 mA) or Lithium-ion D-Cell 3.6V, 19Ah	
Battery life	>2.0	Years
Digital output	RS485 Modbus half-duplex / 4~20 mA / Pulse / Voltage 0~5Vdc	
Display	LCD	
Mechanical connection	NPT or customized	
Gas ID	2 or more gases	
Storage temperature	-20 ~ +70	°C
Reference conditions	20°C, 101.325 kPa, air	
Fluid compatibility	Non-corrosive	
CE	EN61326-1; -2; -3	

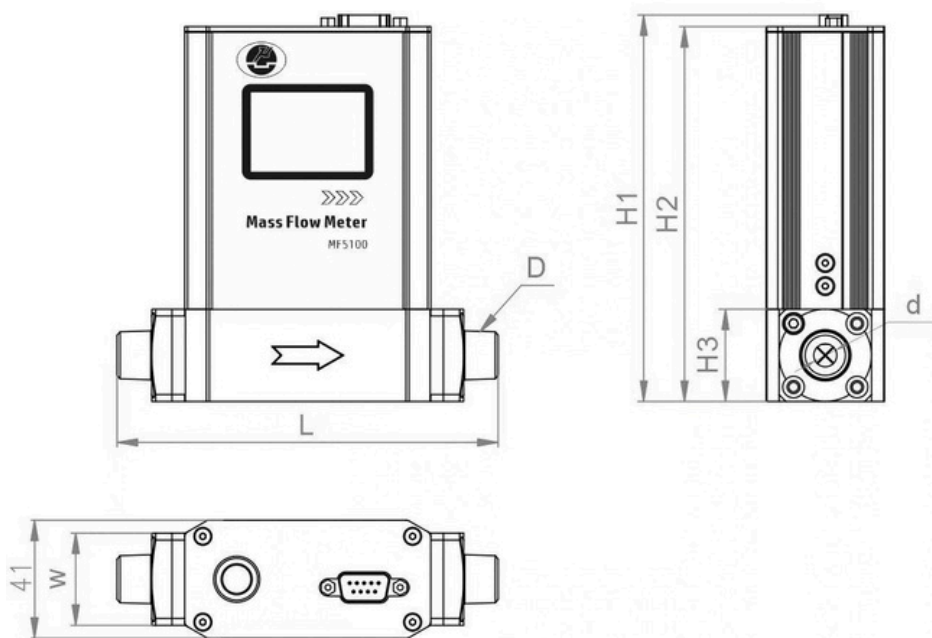
	5106	5108	5110	5112	5119	
Max. overflow	100	200	300	450	1200	SLPM
Max. flow change	15	30	45	60	150	SLPM/sec

Note: For any other features or specifications, please contact the manufacturer.

*All specifications listed in the following table, unless otherwise noted, apply for calibration conditions at 0 °C and 101.325 kPa absolute pressure with air. The product is horizontally mounted during calibration.



Mechanical dimensions

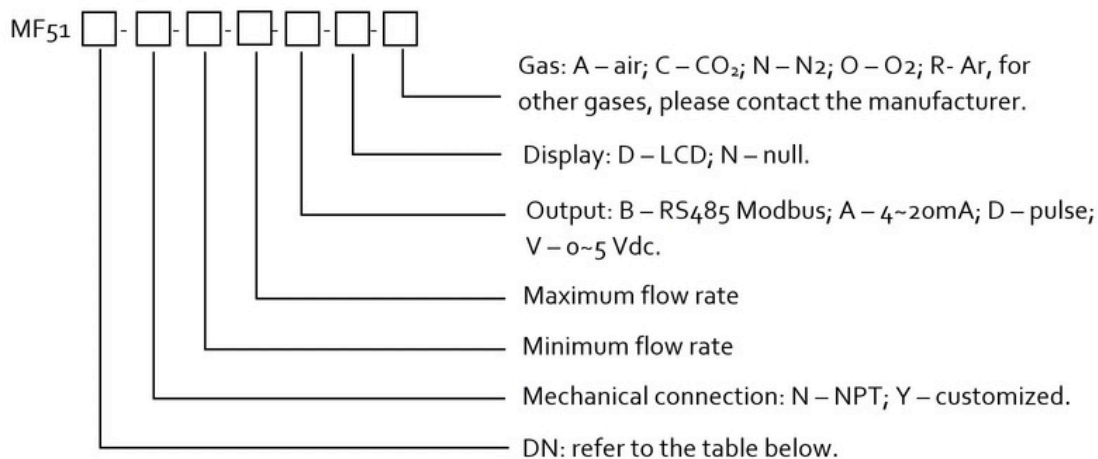


Model	DN (mm)	D (NPTM)	L	H1	H2	H3	W	d
MF5106	3.00	3/8"	132.0	134.0	130.0	32.0	32.0	Φ3.0
MF5108	6.00	3/8"	132.0	134.0	130.0	32.0	32.0	Φ6.0
MF5110	8.00	3/8"	132.0	134.0	130.0	32.0	32.0	Φ8.0
MF5112	12.00	1/2"	150.0	142.0	138.0	40.0	40.0	Φ12.0
MF5119	19.00	3/4"	182.0	142.0	138.0	40.0	40.0	Φ19.0



Product selection and order

The product part number consists of the product model number and suffixes indicating the full-scale flow rate, as well as other parameters. Refer to the following for details.



Maximum and minimum flow range of all models.

Model	DN (mm)	DN (")	Flow range		
			sccm	SLPM	SCFM
MF5106	6.0	3/8"	30~30000	0.30~30.00	-
MF5108	8.0	3/8"	-	0.50~50.00	0.02~2.00
MF5110	10.0	3/8"	-	1.00~100.00	0.04~4.00
MF5112	12.0	1/2"	-	3.00~300.00	0.10~10.00
MF5119	19.0	3/4"	-	8.00~800.00	0.28~28.00