



Digital Rotameter for Gases

Model MF6600



This product is designed to replace rotameters, offering fully digital gas mass flow measurement. The proprietary Thermal-D mass flow sensing, together with the patented flow-conditioning structure, delivers significantly improved performance and predictable gas conversion results. It opts for battery power for stand-alone operation.

Electrical interface
USB Type C

MENU key



Manual control valve



Battery chamber
(optional)

Flow outlet

LCD display

Meter body

Flow inlet

Wire	Color	Definition
1	Red	Power supply, 3.6 ~ 24 Vdc
2	Black	GND, ground
3	Green	RS485A (+)
4	White	RS485B (-)



Included cable with USB-Type-C connector for data and external power.

Cautions:

The battery is a 3.6V lithium-ion battery with a lifespan of over 6 months under normal use. Please purchase a high-quality battery from a known brand. Some branded batteries may not work.

- Mass flow meter
- Digital rotameter
- Battery power
- Laboratory
- Process flow
- Testing
- Flow monitor
- Purge meter



Specifications

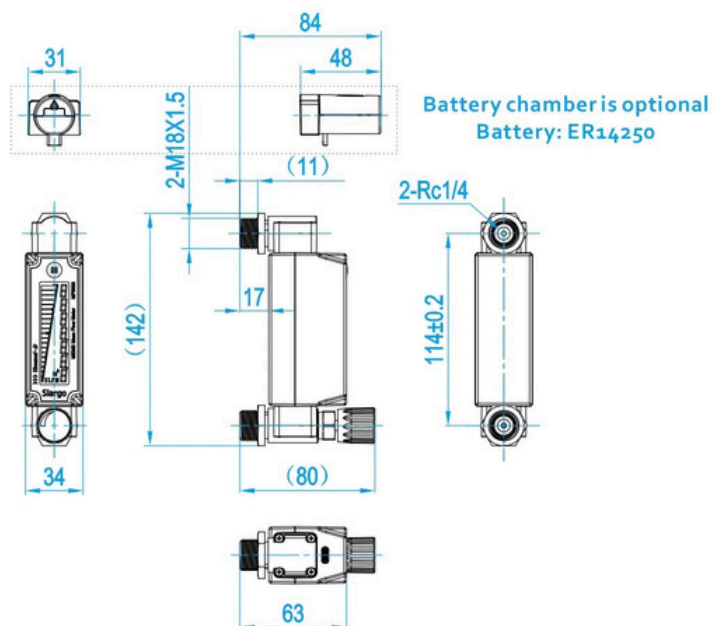
	Value	Unit
Full-scale flow range (Air, N2, O2, and Ar)	1, 2, 5, 10, 20, 50, 100, 200	SLPM
(CO2)	1, 2, 5, 10, 20, 50, 100	
Turn-down ratio	50:1	
Accuracy	±2.0	%FS
Repeatability	0.5	%FS
Working temperature	-10 ~ +55	°C
Maximum pressure	1.0	MPa
Humidity	<95, no condensation	%RH
Power supply	3.6 ~ 24 (50 mA) / lithium-ion battery ER14250	Vdc
Digital output	RS485 Modbus half-duplex	
Electrical connector	USB Type-C	
MENU access	1 function key/digital	
Display	Instant flow rate, accumulated or totalized flow rate	
Control	Manual	
Mechanical connection	BSPT 1/4-Female	
Protection	IP40	
Storage temperature	-20 ~ +65	°C
Reference conditions	20°C, 101.325 kPa, air	
Fluid compatibility	Non-corrosive	
CE	EN61326-1; -2; -3	

*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.

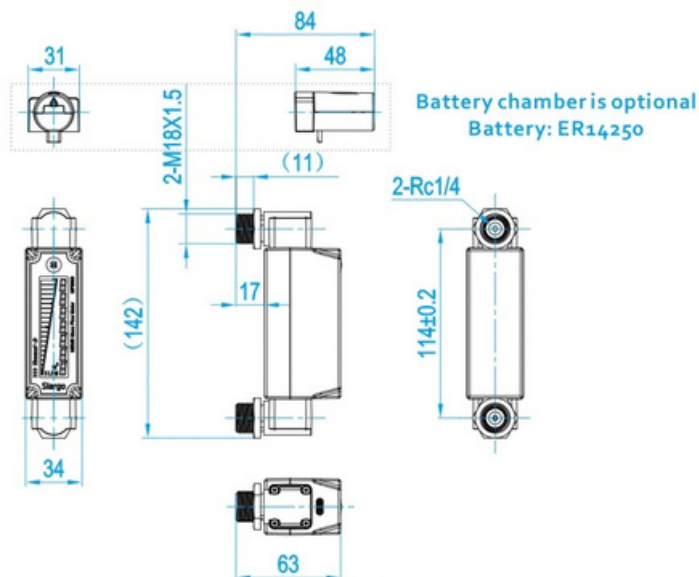
**For other options, please contact the manufacturer.



Mechanical dimensions



With a manual control valve.



Meter only dimensions



Product selection and order

The product part number consists of the product model number and suffixes that indicate the full-scale flow rate. Refer to the following for details.

Full-scale flow rate, as well as the other parameters. Refer to the following for details.

MF6600 - ☐ - ☐ - ☐

Additional code: **Null** - Default; **M** - without valve, meter only.

Gas: **Null** - Air, N₂, O₂ and Ar (Default); **C** - CO₂.
For other gases, please contact the manufacturer.

Maximum full scale flow rate:

Air, N₂, O₂ and Ar (**1SLPM**, **2SLPM**, **5SLPM**, **10SLPM**, **20SLPM**,
50SLPM, **100SLPM**, and **200SLPM**)

CO₂ (**1SLPM**, **2SLPM**, **5SLPM**, **10SLPM**, **20SLPM**,
50SLPM, and **100SLPM**)

Units conversion table

sccm	SLPM	SCFH	NCMH
1000	1	2.12	0.06
2000	2	4.24	0.12
5000	5	10.59	0.30
	10	21.19	0.60
	20	42.38	1.20
	50	105.9	3.00
	100	211.9	6.00
	200	423.8	12.00

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