



Mass Flow Meters for Gases

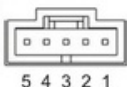
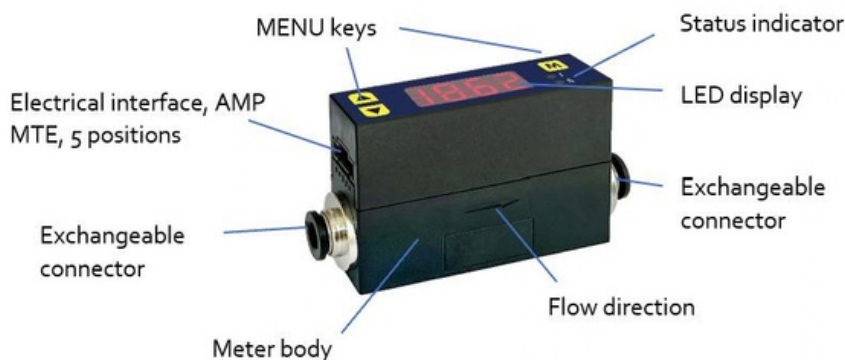
Model MF4000



Thermal - D®

This product is designed for general-purpose gas mass flow measurement. The product is equipped with a patented flow conditioner and the proprietary Thermal-D mass flow sensor, reducing the need for straight piping during installation and significantly improving measurement accuracy, particularly when a gas conversion is applied.

- Gas mixing
- Instrumentation
- Anesthesia gas
- Medical gas
- Welding gas
- Air sampler
- Endoscope
- Ventilators



MF4000 connection and cable
(Part number: SN5-50)

Wire	Color	Definition
1	Blue	RS232 TX / RS485B (-) / SDA, I ² C data
2	Green	Analog output, 1.0 ~ 5.0 Vdc
3	Red	Power supply, 8 ~ 24 Vdc
4	Black	Ground
5	Yellow	RS232 RX / RS485A (+) / SCL, I ² C clock



Specifications

	MF4003	MF4008	MF4008	Unit
Full-scale flow range	2, 3, 4, 5	10, 20	30, 40, 50	
Accuracy	$\pm(1.5+0.15FS)$			%
Repeatability	0.5+0.05FS			%
Turn-down ratio	100:1			
Working temperature	-10 ~ +55			°C
Temperature coefficient	± 0.08			%/°C
Maximum pressure	0.8			MPa
Response time	10			msec
Filter depth	3 (default, 0 ~ 9 programmable)			msec
Humidity	<95, no condensation			%RH
Power supply	8 ~ 24 (50 mA)			Vdc
Analog output	1 ~ 5			Vdc
Null shift	± 30			mVdc
Analog output load	Sourcing: 14; Sinking: 11			mA
Digital output	RS485 Modbus half-duplex / RS232 / I ² C			
Max. overflow	30	100	200	SLPM
Max. flow change	4	15	30	SLPM/sec
Electrical connector	AMPMODU MTE 5 positions			
MENU access (MF serial)	3 key – front face keyboard/digital			
Display (MF serial)	Instant flow rate, totalizer, or accumulated flow rate with LED & 2 indicators			
Mechanical connection	BSPT; 4 / 6 / 8 mm One-touch or customized			
Protection	IP40			
Storage temperature	-20 ~ +70			°C
Reference conditions	20°C, 101.325 kPa, air			
Fluid compatibility	Non-corrosive			
CE	EN61000-2; -3; -4			
RoHS/REACH	Certified			

*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.

SMERI srl

20057 Assago (MI) - Via Mario Idiomi, 3/13

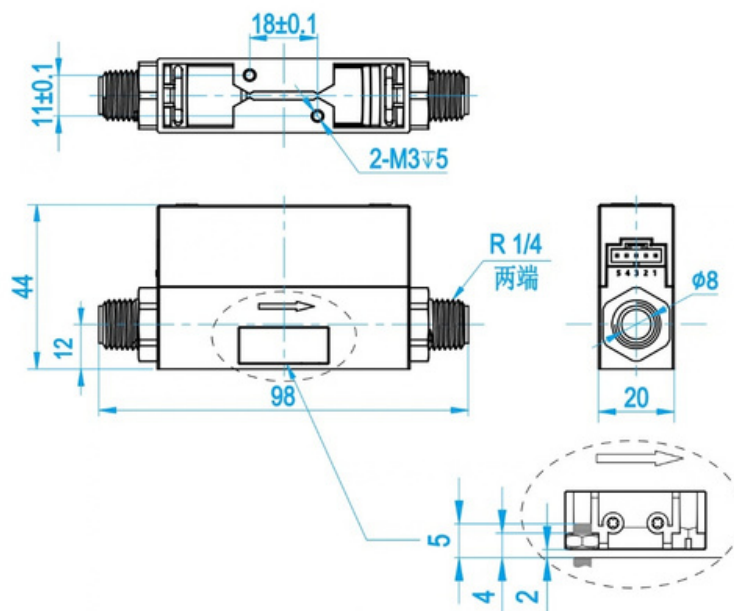
Tel: +39 02 5398941 - smeri@smeri.com

www.smeri.com

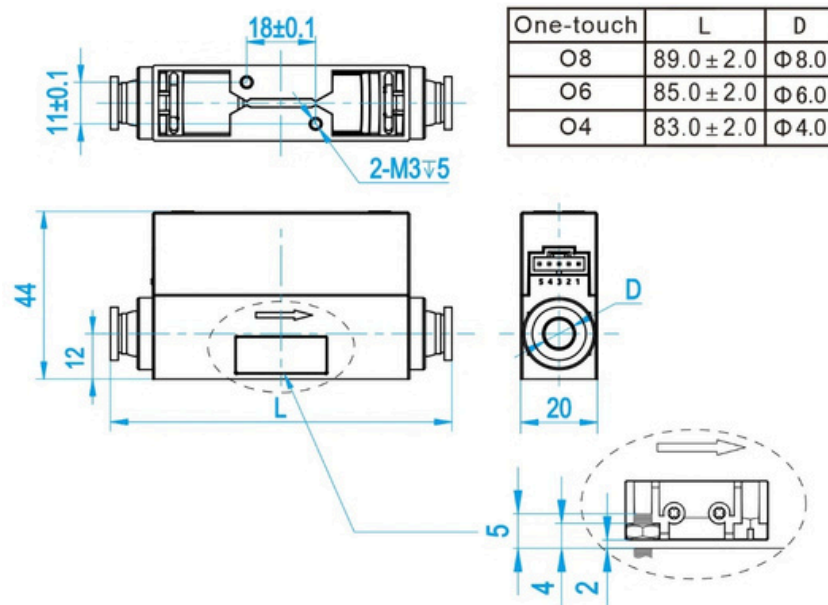
- Gas mixing
- Instrumentation
- Anesthesia gas
- Medical gas
- Welding gas
- Air sampler
- Endoscope
- Ventilators



Mechanical dimensions



MF4000 dimensions with BSPT (R1/4") connectors



MF4000 dimensions with one-touch connectors

- Gas mixing
- Instrumentation
- Anesthesia gas
- Medical gas
- Welding gas
- Air sampler
- Endoscope
- Ventilators



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.

- Gas mixing
- Instrumentation
- Anesthesia gas
- Medical gas
- Welding gas
- Air sampler
- Endoscope
- Ventilators

