



MEMS mass flow meters

with manual precision control

MF4600 series

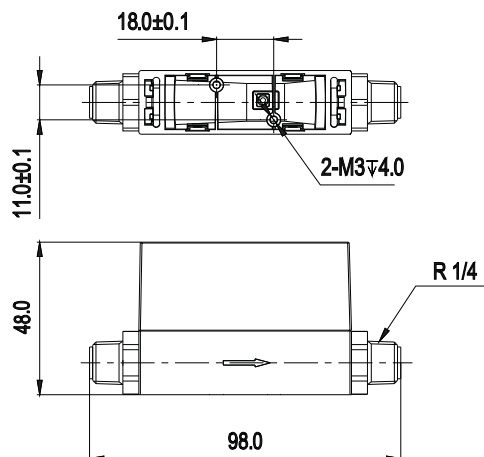
This series of mass flow meters with customer programming panel and precision manual control valve are designed for general purpose gas mass flow measurement with the Company's proprietary MEMS sensing technology. Both electronic and mechanical interfaces can be opted by customers.

Features

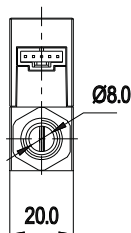
- ⊙ General purpose gas mass flow metrology
- ⊙ Fast response time, customizable to 1 msec
- ⊙ Replace mechanical rotameters
- ⊙ Large dynamic ranges over 100:1
- ⊙ Optional mechanical and electrical interfaces
- ⊙ Customer accessible front panel for parameters

Applications

- * General purpose flow measurement
- * Air sampler/analyzer
- * Industrial process control
- * Instrumentation
- * Applicable for dry and clean gases
- * Automation



The outer mechanical dimensions for both 3mm and 8mm flow channel are identical. The standard BSPT/Rc threaded adapters can be fully replaced by customized ones.



Siargo Ltd.

Santa Clara, California

www.Siargo.com

408.969.0368

info@Siargo.com

Specifications

Model	MF4600	
Flow range	Full scale 0.5 to 300, selectable	SLPM
Accuracy	$\pm(1.5+0.2FS)$	%
Turn-down ratio	> 100:1	
Power consumption	≤ 50.0	mW
Response time	10 (default, 50, 100, 200, 500, 1000 selectable)	msec
Maximum pressure rating	0.5	MPa
Maximum pressure loss	100 @5SLPM and 600 @50SLPM	Pa
Temperature	- 10 ~ 55	°C
Power supply	8 ~ 24	Vdc
Null shift	± 30.0	mV
Temperature coefficient	± 0.12	%/°C
Output	LED, RS232/RS485/I ² C; Analog 0.5 ~ 4.5 Vdc	
Mechanical connection	NPT/BSPT or customer specified	
Enclosure	Stainless steel or other metals	

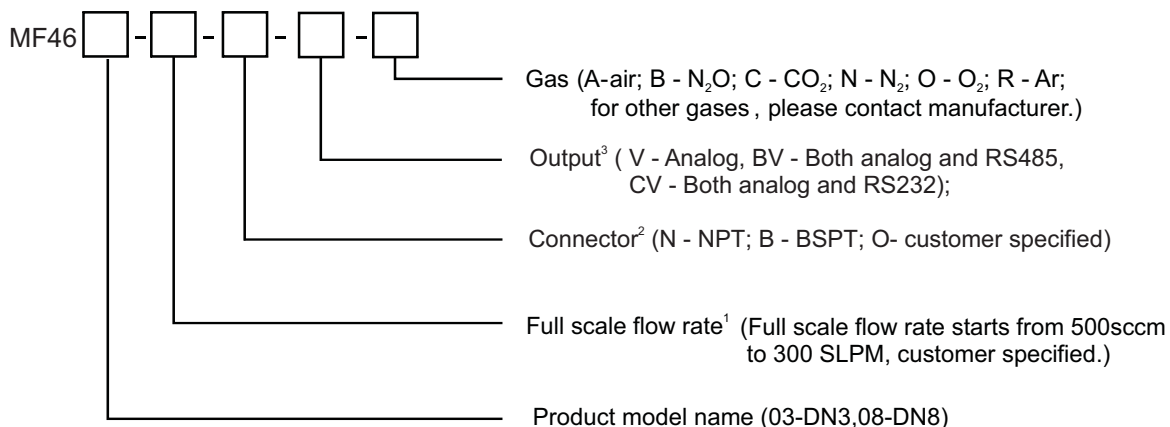
Notes: * The above parameters are applicable at 20°C and 101.325kPa, air calibration.

** Digital interface can be customized.

*** Mechanical adapters can be customized.

Order information

The sensor part number is composed of the model number and suffixes indicating the full scale flow rate, output format as well as the calibration gas. Refer to the followings for details.



1. Numerical maximum flow rate only, for example, 30 meaning full scale flow rate of 30SLPM. Different flow rate may require a different flow channel size for the best performance.

2. For other mechanical connectors, please contact manufacturer.

3. The meter shipped with standard RS485 interface. For other additional options, please contact manufacturer.

• Please find your local sales contact at www.Siargo.com.

• For detailed product information or user manual please contact manufacturer.