

SFM & SFC Series Digital Flow Meter & Flow Controller



Overview

Digital flowmeter, which can quickly and accurately measure the volume flow/mass flow of process fluids; it is suitable for low viscous liquid at low flow rate, such as solution, water, alcohol, Pharmaceuticals, air, gas, etc.

The flow controller uses a customized high-speed proportional control valve to accurately control the fluid's volume flow/mass flow.

Flow meter & controller are with unique vent holes to easily vent air. The integrated multi-function digital display allows users to control set points and PID valve adjustments only through button operation, while opening analog input/output and RS-485 digital communication.

The flow meter controller has no movable components and thermal components inside, and has passed the vibration resistance test and is not sensitive to the installation direction. We provide comprehensive user support, including technical consultation, fast equipment calibration services, and long-time lifetime warranty.

The flowmeter controller uses internally compensated laminar flow differential pressure technology to maintain laminar flow motion over a large flow range.

Product Application

SFM/C series digital mass flow meters and controllers are widely used in various industries, such as process manufacturing, food analysis, analytical testing and metering. Multivariable measurement and 50:1 range adjustable ratio enable the use of only one flow meter or flow controller to replace the effectiveness of multiple devices. Precision of 1%, repeatability of 1%, and control response time of less than 200 milliseconds ensure the normal operation of the process fluids.

Flow Condition

	SFM Series Flow meter	SFC Series Flow Controller
Operation Temperature	10~50 °C	
Max operation pressure	150 psig	
Install	No valve	> 1 L/min, valve should install vertically
Valve	Normal Closed Valve	
IP Level	IP40	
Material	Stainless steel	

Signal

	SFM Series Flow meter	SFC Series Flow Controller
Monochrome LCD display	Flow information , and flow meter setting	
Digital output	RS485/PROFIBUS	
Analogue Input Signal	0-5V DC/4-20mA	
Analogue output Signal	0-5V DC/4-20mA	
Electrical Interface	DB15	
Power supply	12-30V DC	24-30V DC
Power Current	0.250 Amp	0.750 Amp

Specification

	SFM Series Flow meter	SFC Series Flow Controller
Flow Range	Small Range: 0.5 CCM-500 CCM Middle Range: 500 CCM~10 L/M Large Range:10 L/M ~20 L/M	
Accuracy	± 1% F.S	
Repeatability	± 1% F.S	
Zero drift & Full Range Drift	0.02% F.S/°C /Atm	
Work Range/Turn Down Ratio	2%~100 % F.S/50: 1	
Response Time	200 mS (can be set)	
Start up Time	< 5 s	

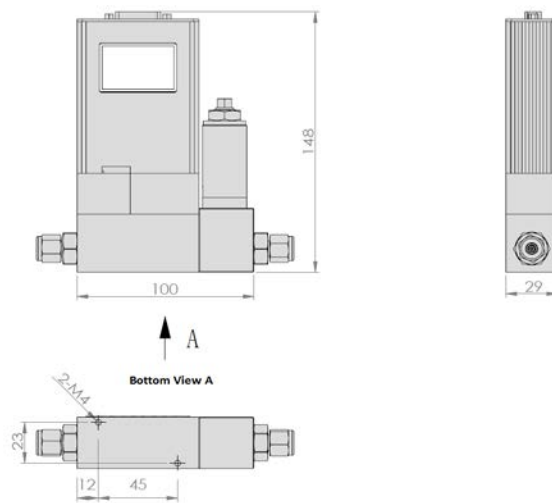
Model Selection

	Code	Description
MARK	SFM Series SFC Series	Flow meter Flow Controller
Pressure Rating	M	150psi
Display	N X	No display With display
Range	010C 020C 030C 050C 100C 200C 500C 001L 002L 003L 005L 010L 020L 000L	0.5 CCM 20 CCM 30 CCM 50 CCM 100 CCM 300 CCM 500 CCM 1 L/M 2 L/M 3 L/M 5 L/M 10 L/M 20 L/M Others
Input	A0 A1 A2 A3	None 0~5V DC 4~20mA 1-5V DC
Output	B1 B2 B3	0~5V DC 4~20mA 1-5V DC
Power supply	5 4	± 15 V DC 24V DC
Communication	8 2	RS485 RS232
Sealing Material	V T N Y	Fluororubber NBR neoprene Others
Process Connection	A B C D E	Φ3 Φ6 Φ8 Φ10 Φ12

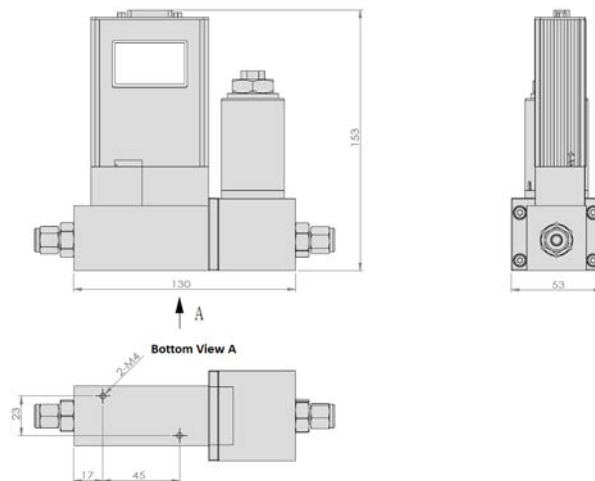
	F	1/8"
	G	1/4"
	L	Flange
	Y	Others

Dimension (unit: mm)

Small Flow: 0.5 CCM to 500 CCM



Middle Range: 1 L/M to 10 L/M



Large Range: 10L/M to 20 L/M

