

Product's Introduction

Thermal gas Mass Flow Controller/Mass Flow Meter

Thermal gas mass flow meter (MFM) is a kind of accurate measurement of gas flow, the measured values are not controlled by fluctuations in temperature or pressure, do not need the compensation of temperature and pressure. Thermal gas mass flow controller (MFC) not only has the function of mass flow meter, but also more important it can control the gas flow automatically that means the user can set the flow as request. MFC will fix the flow on the set value automatically. The set value will be not deviated even if the system pressure fluctuations or surrounding temperature changes. In short, the mass flow controller is a flow stable device, is a gas flow stable device can be programmed manually or controlled by a computer automatically.



Model	SQC-100
Ranges of Flow (N2)	0~5, 10, 20, 30, 50, 100, 200, 500SCCM
	0~1, 2, 3, 5, 10, 15, 20, 30SLM
Accuracy	±1%F.S.(≤15SLM); ±2%F.S.(>15SLM)
Valve Drive Type	Normal Closed
Linearity	±1%F.S.(≤15SLM); ±2%F.S.(>15SLM)
Repeatability	±0.2%F.S.
Response Time	≤1sec
Input/output Signal	0~5V
Electric Joint	DB15 pin (needle)
Operation Tem.	5~45°C
Differential Pre.	0.05~0.5MPa (MFC) ; 0.03~3.0MPa (MFM)
Leak Rate	1×10 ⁻⁸ SCCS (He)
Max. Pressure	3MPa
Medium Material	316L SS and sealing material
Sealing Material	Viton, Silicone rubber, NBR, Teflon, Metal seal.
Joint Size	VCR 1/4"; Swagelok 1/8"、1/4"; φ3、φ6mm
Power Supply	+15V,50mA; -15V,200mA



Model	SQC-200
Ranges of Flow (N2)	MFC: 0~20, 30, 50, 100, 150, 200SLM
	MFM: 0~20, 30, 50, 100, 150, 200, 250, 300SLM
Accuracy	±2%F.S.
Valve Drive Type	Normal Closed
Linearity	±2%F.S.
Repeatability	±0.2%F.S.
Response Time	≤5sec
Input/output Signal	1~5V; 4~20mA
Electric Joint	DB15 pin (needle)
Operation Tem.	5~45°C
Differential Pre.	0.1~0.3MPa (MFC) ; 0.05~3.0MPa (MFM)
Leak Rate	1×10 ⁻⁸ SCCS (He)

Max. Pressure	3MPa
Medium Material	316L SS and sealing material
Sealing Material	Viton, Silicone rubber, NBR, ERP, Teflon
Joint Size	Swagelok 3/8"、1/2"; φ8、φ10、φ12mm
Power Supply	24V,0.5A

Flow readout box/Integrator

Flow Readout Boxes provide operating power supply, operating control, flow setting and flow digital display for the mass flow controller (MFC) and the mass flow meter (MFM). It can be connected with our MFC and MFM directly. And, it can also be used for other models of MFC or MFM.



Model	SQD-1A/1AM
Nominal Output	+15V±5%, 400mA; -15V±5%, 400mA
Normal Power Supply	+5V±0.1%, 5mA
Power Supply	165~265VAC (or 85~265VAC), 50Hz
Max. Consumption	10W
Output & Input Signal	0~5V or 4~20mA (or 0~10mA)
Dimensions	96×96×148mm

The **SQD-1A** series Flow Readout Boxes adopt the small plastic casing, it is compact and easy to install. For the flow input and output signal, except for the standard 0-5V signal, also has the current signal 4~20mA or 0~10mA.

1A type flow readout box has the flow setting and valve control function, which can be used with mass flow controller and mass flow meter.

1AM type flow readout box has no flow setting and valve control function, which is specially designed for the mass flow meter.

SQD-1B series flow integrator used for the control and display of MFC/MFM, and can be providing flow upper & lower limit alarm function, timing control function, cumulative flow display and cumulative value alarm function. It has RS485 digital communication and the communication protocol is compatible with MODBUS-RTU standard, can be connected with PLC and configuration software, to achieve wireless control.

Model	SQD-1B	SQD-1BP
Nominal Output	+15V±5%, 400mA; -15V±5%, 400mA	
Power Supply	220VAC/24VDC (Incompatibilities, should be specified when order)	
Max. Consumption	10W	
Output & Input Signal	0~5V, RS485	
Dimensions	96×96×108mm	
Cumulative Flow Display	Yes	Yes
Cumulative Flow Alarm	No	Yes
Timer alarm	No	Yes
Upper & Lower Limit Alarm	No	Yes
Wireless Control	Optional parts	Optional parts

Multichannel Gas Mixer

SQ series of mixer used to multiplex gas mixing ratio, accurate control each gas proportion relation, then output to the terminal equipment in real time online.

This instrument has the features of high efficiency, precision, stability, wide range adjustment, speedy response, high automation, high extensibility and easy operation etc.



Gas filtration

Inside the products, each inlet branch is installed high performance 316L stainless steel filter. Filtration precision $2\ \mu\text{m} \sim 40\ \mu\text{m}$, the filter element is composed of stainless steel powder metallurgy sintering, which can avoid blocking of the particle pollutant into the pipeline.

Avoid gas backflow

In order to avoid the gas flow back inside the pipe, each branch of the products equipped stainless steel on-way valve to ensure the gas flow in one-way. Then avoid the instrument damages because of gas backflow.

High efficiency and evenly gas mixture

The product adopts the sonic nozzle principle to allow the gas can be mixed quickly and evenly.

Powerful extensibility

In addition to the gas ratio mixing function, the product also add following customized functions according to the customers' some special requests. Such as temperature & pressure display, density measurements, etc. The case size also can be change as customer's request or actual situation. We must ensure the product's every function, also have to ensure the appearance's simple and smart, use small space and other factors.

Touch screen integrated

When the instruments control and computer connection control cannot satisfy some high end users, industrial control computer integrated appears. This solution solved some on-site installation problem well, no need any auxiliary equipment, just need to connect power supply, quick and intuitive operation, small pace, convenient move, it is one of the most popular products for high end users.

Date Management Function

The software control interface has the functions of experimental date save and output, you can check your experimental date any time, also including the experimental date curve, it is very clear, intuitive and convenient.

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