

GAS | Products For Gas Applications

Products For
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MASS FLOW CONTROLLER

Analog Mass Flow Controller MC-10 Series



■ Outlines

- MC-10 Series: Analog mass flow controller with solenoid actuator and high variety of options available

■ Features

- Elastomer seal
- $\pm 1.0\%$ F.S. accuracy is guaranteed
- Available from 10SCCM and 50SLM
- Variable Range (VR) function is available as an option:
VR function allows gas type and flow range selection using "N2 default flow rate \div setting flow rate \times conversion factor" formula, which is input by adjusting 3 rotary switches
- VR function can offer solutions to various gas type and flow rate operations and thus eliminate the need to use multiple MFCs
- Widely used RS-485 interface is available as an option:
(Daisy-chain networks support up to 32 MFC connectors)
- LINTEC's unique ambient temperature-compensated sensor incorporated
- Fast-acting solenoid actuator incorporated
- By using metal case and various filters, stable operation can be achieved through reduction of radio frequency noises and electromagnetic field interferences

CE RoHS

VR Corresponding Chart

Model		Applicable gas types	Flow rate in Nitrogen	VR value (variable)	N2 default flow rate
MC-10RC	01	All gas types except LG	10 ~ 20SCCM	0.50 ~ 1.00	10SCCM
	02		20 ~ 50SCCM	0.60 ~ 1.50	30SCCM
	03		40 ~ 100SCCM	0.50 ~ 1.25	50SCCM
	04		80 ~ 200SCCM	0.50 ~ 1.25	100SCCM
	05		200 ~ 500SCCM	0.60 ~ 1.50	300SCCM
	06		400 ~ 1000SCCM	0.50 ~ 1.25	500SCCM
	07		800 ~ 2000SCCM	0.50 ~ 1.25	1SLM
	08		2 ~ 5SLM	0.60 ~ 1.50	3SLM
MC-11RC	09		4 ~ 10SLM	0.50 ~ 1.25	5SLM
	10		8 ~ 20SLM	0.50 ~ 1.25	10SLM
	11		20 ~ 50SLM	0.60 ~ 1.50	30SLM

Model	MC-10RC	MC-11RC
Flow rate in Nitrogen (Full scale)	10 ~ 5,000SCCM	~ 50SLM
Flow rate control range	2 ~ 100% F.S.	
Valve operation mode	Normally closed	
Accuracy	$\pm 1.0\%$ F.S.	
Repeatability	$\pm 0.2\%$ F.S.	
Response time	1 sec	
Analog flow rate setting signal	0.1 ~ 5VDC	
Analog flow rate output signal	0 ~ 5VDC	
Operating differential pressure	50 ~ 300kPa	200 ~ 300kPa
Withstand pressure	1MPa(G)	
Operating temperature	15 ~ 35°C 0 ~ 80% RH	
Leak integrity	$1 \times 10^{-8} \text{Pa} \cdot \text{m}^3 / \text{sec He}$	
Materials exposed to gas	SUS316L, Magnetic stainless steel, PTFE	
Seal materials	Viton®	
Power supply requirement	+15VDC 100mA, -15VDC 150mA	+15VDC 100mA, -15VDC 200mA
Mounting position	Free	
Analog connector	Dsub 9pin	
Control valve actuator	Solenoid actuator	
Weight	1.2kg	