

Variable Range (VR) Mass Flow Controller

MC-700 Series



■ Outlines

- MC-700 Series: Mass flow controller equipped with 3 variable rotary switches for gas type selection and flow rate adjustments

■ Features

- Rotary switch and VR function-installed units offer one to multiple device support, eliminating the need for spare parts
- Widely-used RS-485 interface equipped (Daisy-chain networks support up to 32 MFC connections)
- LINTEC's original ambient temperature-compensated sensor incorporated
- Highly functional upon installation of microprocessor
- Diaphragm valve with small dead volume
- High-speed and high efficiency piezoelectric actuator
- Long-term leak tightness ensured using metal seal
- 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	VR No.	Applicable gas type	Flow rate in Nitrogen	VR value (variable)	Standard flow rate
MC-710	02	All gas types in general	10 ~ 30SCCM	0.50 ~ 1.50	15SCCM
	03	All gas types in general	25 ~ 100SCCM	0.50 ~ 2.00	50SCCM
	04	All gas types in general	75 ~ 300SCCM	0.50 ~ 2.00	150SCCM
	05	All gas types in general	0.25 ~ 1SLM	0.50 ~ 2.00	500SCCM
	06	All gas types in general	0.75 ~ 3SLM	0.50 ~ 2.00	1.5SLM
MC-720	07	All gas types in general	2.5 ~ 10SLM	0.50 ~ 2.00	5SLM
MC-730	08	All gas types in general	10 ~ 30SLM	0.50 ~ 1.50	15SLM
	09	All gas types in general	30 ~ 50SLM	0.60 ~ 1.00	30SLM

Model	MC-710	MC-720	MC-730
Flow rate in Nitrogen (Full scale)	10 ~ 3,000SCCM	~ 10SLM	~ 50SLM
Flow rate control range	2 ~ 100% F.S.		
Valve operation mode	Normally open, Normally closed		
Accuracy	±1.0% F.S.		
Repeatability	±0.2% F.S.		
Response time	1 sec		
Analog flow rate setting signal	0.1 ~ 5VDC		
Analog flow rate output signal	0.05 ~ 5VDC		
Operating differential pressure	50 ~ 300kPa	100 ~ 300kPa	150 ~ 300kPa
Withstand pressure	1MPa(G)		
Operating temperature	15 ~ 35°C 0 ~ 80% RH		
Leak integrity	1×10 ⁻¹¹ Pa · m ³ / sec He		
Materials exposed to gas	SUS316L, PCTFE, PTFE		
Seal materials	SUS316L		
Power supply requirement	+15VDC±3% 100mA, -15VDC±3% 50mA		
Mounting position	Free		
Analog connector	Dsub 9pin		
Digital interfaces	RJ45/RS-485		
Control valve actuator	Piezoelectric actuator		
Weight	1.0kg		