GAS | Products For Gas Applications

High Performance Digital Mass Flow Controller

MC-3000L Series



Outlines

● MC-3000L Series: High performance mass flow controller with high accuracy of ±1.0% S.P. guaranteed

Features

- High accuracy ±1.0% S.P.
- RS-485 digital interface
- LINTEC's unique ambient temperature-compensated sensor incorporated
- Highly functional upon installation of microprocessor
- Diaphragm valve with small dead volume
- High-speed and high performance 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

C ∈ RoHS

Model		MC-3102L	MC-3202L	MC-3252L	MC-3452L	MC-3462L	MC-3472L	MC-3582L
Flow rate in Nitrogen (Full scale)		5~5,000SCCM	~ 20SLM	~ 50SLM	\sim 50SLM	~ 150SLM	~ 200SLM	~ 400SLM
Flow rate control range		2 ~ 100% F.S.						
Valve operation mode		Normally open, Normally closed			Normally closed			
Accuracy		100% F.S. \sim 25% F.S. ±1.0% S.P. 25% F.S. \sim 2% F.S. ±0.25% F.S.			100% F.S. ~ 35% F.S. ±1.0% S.P. 35% F.S. ~ 2% F.S. ±0.35% F.S. ±1.0% F.S.			±2.0% F.S.
Repeatability		±0.2% F.S.			±0.5% F.S.			±1.0% F.S.
Response time		1 sec						2 sec
Analog flow rate setting sig	gnal	0 ~ 5VDC						
Analog flow rate output sig	gnal	0~5VDC						
Operating differential pres	ssure	50 ∼ 300kPa	Normally open 50 ~ 300kPa (~ 10SLM) 100 ~ 300kPa (~ 20SLM) Normally closed 100 ~ 300kPa (~ 10SLM) 200 ~ 300kPa (~ 20SLM)	100 ~ 300kPa (~ 30SLM) 150 ~ 300kPa (~ 50SLM)	150 ∼ 500kPa	250 ∼ 500kPa	300 ~ 500kPa	350 ∼ 500kPa
Withstand pressure		1MPa(G)						
Temperature Zero		±0.02% F.S. / °C			±0.1% F.S. / °C			
coefficient Span		±0.02% F.S. / °C ±0.04% F.S. / °C ±0.08% F.S. / °C ±0.1% F.S. / °C ±0.1% F.S. / °C						
Operating temperature		5 ~ 50°C 0 ~ 80% RH						I 0- 2 · · · ·
Leak integrity		1×10 ⁻¹¹ Pa⋅m³ / sec He						1×10 ⁻⁸ Pa·m ³ / sec He
Materials exposed to gas		SUS316L, PCTFE SUS316L, SUS304, Teflon®						
Seal materials		Au						
Power supply requirement		+15VDC±3% 100mA, -15VDC±3% 50mA						
Mounting position		Free						
Analog connector		Dsub 9pin						
Digital interface		RJ45/RS-485						
Control valve actuator		Piezoelectric actuator						
Weight		1.0kg 1.4kg						2.4kg

