

EtherCAT® Mass Flow Controller MC-5000C Series

EtherCAT®



Products For
Gas Applications

MASS FLOW CONTROLLER

■ Outlines

- MC-5000C Series: EtherCAT® interface-dedicated mass flow controller

■ Features

- EtherCAT digital interface in accordance with SEMI E54.20-1108
- LINTEC's unique 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

Model		MC-5100C	MC-5200C	MC-5250C	MC-5460C	MC-5470C	MC-5580C
Flow rate in Nitrogen (Full scale)		10 ~ 5,000SCCM	~ 20SLM	~ 50SLM	~ 150SLM	~ 200SLM	~ 300SLM
Flow rate control range		2 ~ 100% F.S.					
Valve operation mode		Normally open, Normally closed			Normally closed		
Accuracy		100% F.S. ~ 10% F.S. ±1.0% S.P. 10% F.S. ~ 2% F.S. ±0.1% 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.		
Response time		1 sec					
Operating differential pressure		50 ~ 300kPa	100 ~ 300kPa	150 ~ 300kPa	250 ~ 500kPa	350 ~ 500kPa	
Withstand pressure		1MPa(G)					
Temperature coefficient	Zero	±0.02% F.S. / °C			±0.1% F.S. / °C		
	Span	±0.02% F.S. / °C	±0.04% F.S. / °C	±0.08% F.S. / °C	±0.1% F.S. / °C		
Operating temperature		5 ~ 50℃ 0 ~ 80% RH			10 ~ 40℃ 0 ~ 80% RH		
Leak integrity		1×10 ⁻¹¹ Pa・m ³ / sec He			1×10 ⁻⁸ Pa・m ³ / sec He		
Materials exposed to gas		SUS316L, PCTFE, PTFE			SUS316L, SUS304, Teflon®, Viton®		
Seal materials		SUS3136L			Au		
Power supply requirement		24VDC (350mA) ±3%			24VDC (350mA) ±10%		
Mounting position		Free					
Digital interface		EtherCAT®					
Control valve actuator		Piezoelectric actuator					
Weight		1.0kg			1.4kg		