## **GAS** | Products For Gas Applications

# EtherCAT Mass Flow Controller MC-5000C Series





#### Outlines

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

#### Features

- EtherCAT digital interface in accordance with SEMI E54.20-1108
- LINTEC's own 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 acheived through reduction of radio frequency noises and electromagnetic field interferences

### **(€ RoHS**

Model	MC-5100C	MC-5200C	MC-5250C	MC-5450C	MC-5460C	MC-5470C	MC-5580C
Flow rate in Nitrogen	10 ~ 5,000SCCM	5.1 ~ 10SLM	11 ∼ 50SLM	50SLM	100, 150SLM	200SLM	300SLM
(Full scale)	10 ° 5,0003CCW	5.1 ° 103LW	11 1 503LW	SUSLIVI	100, 1503LW	2003LW	3003LW
Flow rate control range			2 ~	100% F.S.			
Valve operation mode	Normally open, Normally closed			Normally closed			
Accuracy				100% F.S. ~ 35%FS.			
	100% F.S. ~ 25% F.S. ±1.0% S.P. 25% F.S. ~ 2% F.S. ±0.25% F.S.			±1.0% S.P.		±1.0% F.S.	±2.0% F.S.
				35% F.S.	$\sim$ 2% F.S.	±1.0% F.S.	5. ±2.0% F.3.
				±0.35	5% F.S.		
Repeatability	±0.2% F.S.			±0.5% F.S.			
Response time	1 sec						
Operating differential pressure	50 ~ 300kPa   100 ~ 300kPa   150 ~ 300kPa			150 ~ 500kPa   250 ~ 500kPa   350 ~ 500kPa			
Withstand pressure			MPa(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						
Operating temperature	15 ~ 35°C 0 ~ 80% RH			10 ~ 40°C 0 ~ 80% RH			
Leak integrity	1×10 <sup>-11</sup> Pa⋅m³/sec He			1×10 <sup>-8</sup> Pa·m³ / sec He			
Materials exposed to gas	SUS316L, PCTFE, PTFE			SUS316L, SUS304, Teflon®			
Seal materials	Au			Au, Viton®			
Power supply requirement	24VDC (350mA) ±3%			24VDC (350mA) ±10%			
Mounting position	Free						
Digital interfaces	EtherCAT®						
Control valve actuator			Piezoel	ectric actuator			
Weight	1.0kg			1.4kg 2.4kg			