GAS | Products For Gas Applications

Low Cost Analog Mass Flow Controller

MC-1000L Series



Outlines

 MC-1000L Series: Low cost of MFC ownership possible with elastomer seal attached

Features

- Elastomer seal
- Fast-acting solenoid actuator incorporated
- By using metal case and various filters, stable operation can be acheived through reduction of radio frequency noises and electromagnetic field interferences

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Low Differencial Pressure Mass Flow Controller

MC-3000S Series



Outlines

MC-3000S Series: Mass flow controller equipped with LINTEC's original low pressure differential device to operate at low differencial pressure environmental

Features

- Low pressure differential device
- RS-485 digital interface
- LINTEC's original 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 acheived through reduction of radio frequency

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High Temperature Mass Flow Controller

MC-3000L-TC Series



Outlines

MC-3000L-TC Series: Mass flow controller with maximum operating temperature up to 120°C

Features

- Maximum operating temperature of 120°C
- RS-485 digital interface
- LINTEC's original 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 acheived through reduction of radio frequency noises and electromagnetic field interferences

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Model		MC-1102L-RC	MC-1202L-RC	MC-1252L-RC	
Flow rate in Nitrogen (Full scale)		10~5,000SCCM	6 ~ 30SLM	31 ~ 50SLM	
Flow rate control range		2 ~ 100% F.S.			
Valve operation mode		Normally closed			
Accuracy		±1.0% F.S.		±2.0% F.S.	
Repeatability		±0.2% F.S.			
Response time		1 sec			
Analog flow rate setting signal		0 ~ 5VDC			
Analog flow rate output signal		0 ~ 5VDC			
Operating diff	ferential pressure	$50\sim300$ kPa	100 ~ 300kPa	200 ∼ 300kPa	
Withstand pressure		1MPa(G)			
Temperature Zero		±0.1% F.S. / °C			
coeffieient	Span		±0.1% F.S. / °C		
Operating temperature		5 ~ 50°C 40 ~ 70% RH			
Leak integrity		1×10 ⁻⁷ Pa⋅m³ / sec He			
Materials exposed to gas		SUS316L, Magnetic stainless steel, PTFE			
Seal materials		Fluororubber or Polychloroprene			
Power supply requirement		+15VDC±3% 25mA, -15VDC±3% 180mA			
Mounting position		Free			
Analog connector		Dsub 9pin			
Control valve actuator		Solenoid actuator			
Weight		1.2kg			

Model		MC-3102S			
Flow rate in Nitrogen (Full scale)		2~10SCCM	20SCCM	30SCCM	
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		2 sec			
Analog flow rate setting signal		0 ~ 5VDC			
Analog flow rate output signal		0 ~ 5VDC			
Operating differential pressure		$8 \times 10^2 \text{Pa} \sim 1.33 \times 10^5 \text{Pa}$	1.07×10 ³ Pa ∼ 1.33×10 ⁵ Pa	$1.33 \times 10^{3} \text{Pa} \sim 1.33 \times 10^{5} \text{Pa}$	
Withstand pressure		1MPa(G)			
Temperature coefficient	Zero	±0.02% F.S. / °C			
	Span	±0.02% F.S. / °C	±0.04% F.S. / °C	±0.08% F.S. / °C	
Operating temperature		5 ~ 50°C 0 ~ 80% RH			
Leak integrity		1×10 ⁻¹¹ Pa⋅m³ / sec He			
Materials exposed to gas		SUS316L, SUS304, PCTFE			
Seal materials		Au			
Power supply requirement		+15VDC±3% 100mA, -15VDC±3% 50mA			
Mounting position		Specified upon placement of order			
Analog connector		Dsub 9pin			
Digital interfaces		RJ45/RS-485			
Control valve actuator		Piezoelectric actuator			
Weight		1.0kg			

Model	MC-3102L-TC-L	MC-3102L-TC-H	
Flow rate in Nitrogen (Full scale)	10 ~ 5,000SCCM		
Flow rate control range	e 2 ~ 100% F.S.		
Valve operation mode	Normally closed		
Accuracy	±1.0% F.S.		
Repeatability	±0.2% F.S.		
Response time	1 sec		
Analog flow rate setting signal	0 ~ 5VDC		
Analog flow rate output signal	0 ~ 5VDC		
Operating differential pressure	50 ∼ 300kPa		
Withstand pressure	1MPa(G)		
Operating temperature	80~100°C 0~80% RH	100 ~ 120°C 0 ~ 80% RH	
Bake temperature		150°C	
Leak integrity	1×10 ⁻¹¹ Pa·m³ / sec He		
Materials exposed to gas	SUS316L, PCTFE		
Seal materials	Au		
Power supply requirement	+15VDC±3% 100mA, -15VDC±3% 200mA		
Mounting position	Free		
Analog connector	Dsub 9pin		
Digital interface	RJ45/RS-485		
Control valve actuator	Solenoid actuator		
ight 1.2kg			