



Features



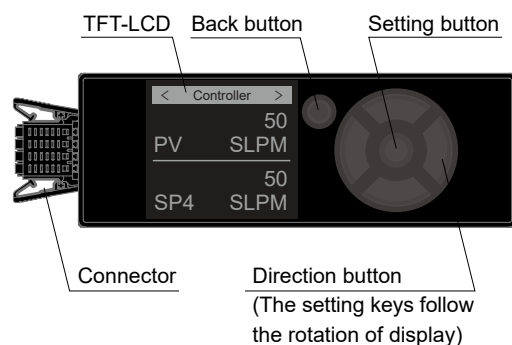
User manual



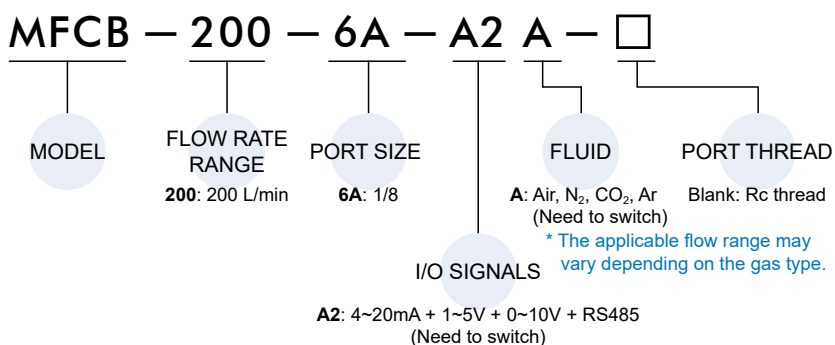
Features

- 65K Full color TFT-LCD display
- 4 Directions display for easy setup and viewing
- Response time < 0.3 S
- Switchable analog input/output and switch output
- RS485 Modbus RTU
- Applicable industries: Semiconductor, Laser Welding, IoT

Panel description



Order example



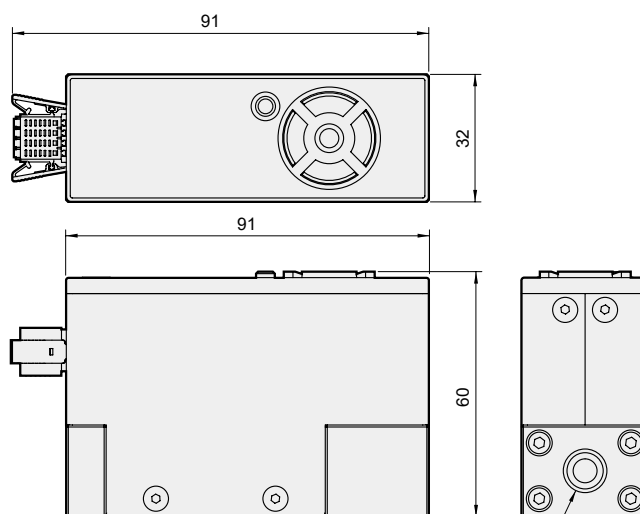
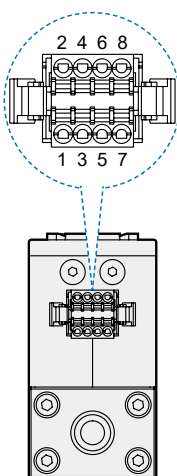
Dimensions / Pin No.

Pin	Description
1	+ 24V DC
2	Analog input 0 ~ 10V or 4 ~ 20mA
3	RS485 A+
4	Analog output 1 ~ 5V or 0 ~ 10V or 4 ~ 20mA
5	Not Used
6	Switch output NPN or PNP
7	RS485 B-
8	0V

* Cable: 20 ~ 24AWG

* Connector model : 0156-1C08-BK (Brand : Dinkle)

* Please use a 2.5 mm flat screwdriver.



Port size: Rc1/8"

Specifications

Model				MFCB		
Valve type				Proportional solenoid valve normally closed when power off (N.C.)		
Fluid				Non-corrosive / Non-flammable gas: Dry air, N ₂ , CO ₂ , Ar		
Flow rate	Air, N ₂ , Ar			200 L/min		
	CO ₂			100 L/min		
Display	Display			1.3" 65K Full color TFT-LCD display		
	Flow control	Display range		0 ~ 100 % F.S.		
		Minimum Setting scale	LPM	1 L/min		
			CFM *1	1 ft ³ /min		
		Pressure	Display range		-101 ~ 1000 kPa	
	Minimum Setting scale		kPa	1		
			MPa	0.001		
			kgf/cm ²	0.01		
			bar	0.01		
			psi	0.1		
			Temperature	Display range		0~50℃ / 32~122 °F (Non-freezing)
	Minimum Setting scale			℃	0.1	
		℉		0.1		
	Humidity	Display range		10 ~ 90% RH		
		Minimum setting scale		0.1 % RH		
	Accuracy	Flow control *2	Control accuracy		± 3% F.S.	
			Repeatability		± 1% F.S.	
			Temp. characteristic *3		± 5% F.S.	
			Pressure characteristic *4		± 2% F.S.	
		Pressure	Indicator accuracy		± 2% F.S.	
			Repeatability		± 0.1% F.S.	
		Temperature	Indicator accuracy		± 0.2 ℃	
Humidity		Repeatability		± 0.25% RH		
Analog input and output		± 1 % F.S.				
Switch output *5	Switch output		NPN open collector output Max. load current : 200 mA Max. supply voltage : 24 V DC Voltage drop : ≤ 1.5 V	PNP open collector output Max. load current : 200 mA Max. supply voltage : 24 V DC Voltage drop : ≤ 1.5 V		
	Output mode	Flow control	Tolerance mode, error mode			
	Response time	Flow control	0.3 s (typ.) to the setting ± 2 % F.S.			
Analog input and output *5				DC 1 ~ 5 V, 0 ~ 10 V, 4 ~ 20 mA		
Communication interface				RS485 Modbus RTU		
Power	Power supply voltage			DC 24 V		
	Current consumption			≤ 300 mA		
Environment	Working pressure range			300 ~ 500 kPa		
	Standard differential pressure			300 kPa (Inlet pressure : 300 kPa, Outlet pressure: 0 kPa)		
	Withstand pressure			1000 kPa		
	Enclosure			IP40		
	Working fluid temp.			0 ~ 50 ℃ (No condensation or freezing)		
	Ambient temp. range			Operation : 0 ~ 50 ℃ ; Storage : -10 ~ 60 ℃ (No condensation or freezing)		
	Ambient humidity range			Operation / Storage: 35 ~ 85 % R.H. (No condensation)		
Accessories				2M cable		
Weight				685 g		

*1. When the display unit is CFM or ft³, the actual flow is the display value×10⁻².

*2. Based on dry compressed air and measured by our standard flow meter as a reference for other gas.

*3. Benchmark : 25 °C (Temperature range: 0 ~ 50 °C)

*4. Benchmark : Inlet pressure : 300 kPa,
Outlet pressure : 1 atmospheric pressure, 25 °C

*5. Switchable, please follow the manual for setup.