

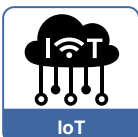
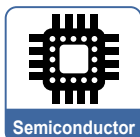
KFC

SERIES

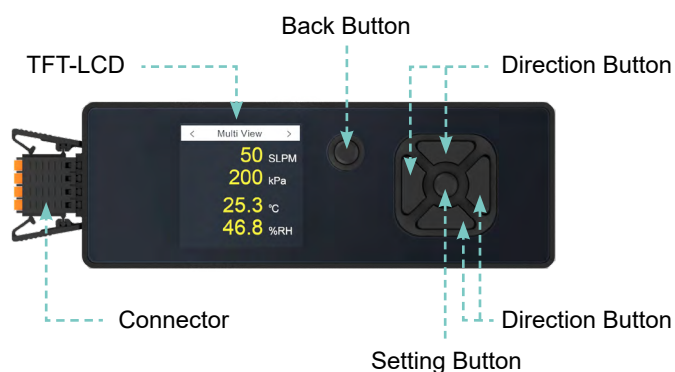
Gas Digital Flow Controller

Features

- Real-time monitoring : flow, pressure, temperature, humidity
- 65K full-color TFT LCD
- 4-direction display for flexible viewing
- Response time < 0.3 s
- Switchable analog input / output and switch output
- RS485 Modbus RTU



Panel Description



Ordering Information

K F C - 2 0 1 - F 1 C

Flow Rate Range

201 : 200 L/min

Port Size

F1C : Rc1/8", with internal threads

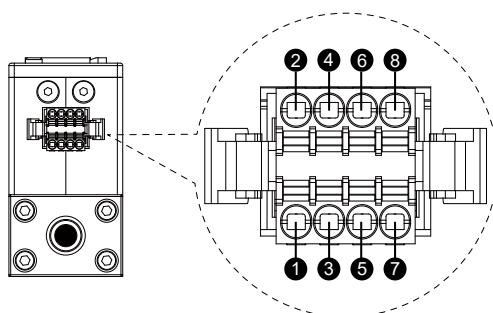
Optional Parts

W-0165-01 : 2 meter cable

BT-33 : Mounting bracket

※ Cable excluded from packaging

Pinout



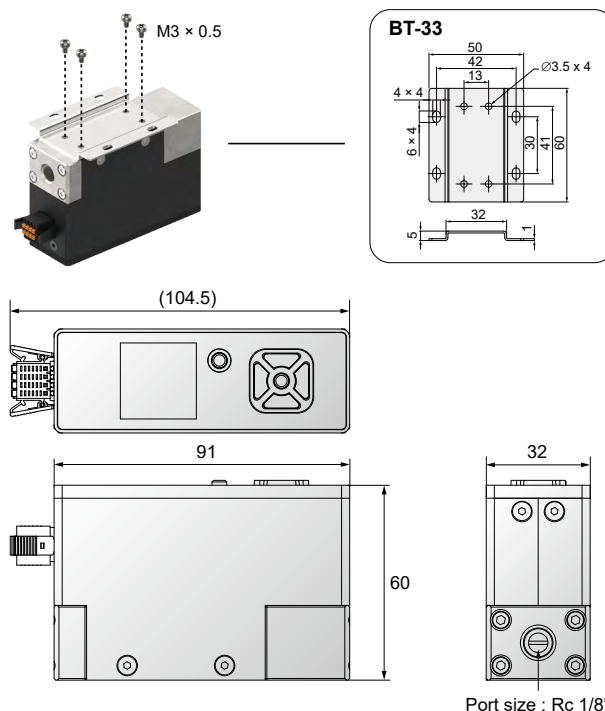
PIN No.	Content
①	+ 24 V DC
②	Analog input 1 ~ 5 V or 0 ~ 10 V or 4 ~ 20 mA
③	RS485 A+
④	Analog output 1 ~ 5 V or 0 ~ 10 V or 4 ~ 20 mA
⑤	Not Used
⑥	Switch output NPN or PNP
⑦	RS485 B-
⑧	0 V

※ Wire : 20 ~ 24AWG

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

※ Please use a 2.5 mm flathead screwdriver

Dimensions



Unit: mm

Specifications

Model				KFC-201			
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				200 L/min			
Display				1.3" 65K Full color TFT-LCD display			
	Flow Control	Display Range		1 ~ 100 % F.S.			
		Minimum Setting Scale	LPM	1 L/min			
			CFM ※1	1 ft³/min			
	Pressure	Display Range		-101 ~ 700 kPa			
		Minimum Setting Scale	kPa	1			
			MPa	0.001			
			kgf/cm²	0.01			
			bar	0.01			
			psi	0.1			
	Temperature	Display Range		0.0 ~ 50.0 °C / 32 ~ 122 °F			
		Minimum Setting Scale	°C	0.1			
			°F	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 °C			
	Humidity	Indicator Accuracy		± 5.5 % RH			
	Analog Input and Output			± 1 % F.S.			
	Switch Output ※5				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 ± 10 %			
		Current Consumption		≤ 300 mA			
Environment	Working Pressure Range			350 ~ 500 kPa			
	Standard differential pressure			350 kPa (Inlet pressure : 350 kPa, Outlet pressure : 0 kPa)			
	Withstand Pressure			700 kPa			
	Enclosure			IP40			
	Working Fluid Temp.			0 ~ 50 °C (No condensation or freezing)			
	Ambient Temp. Range			Operation : 0 ~ 50 °C ; Storage : -10 ~ 60 °C (No condensation or freezing)			
	Ambient Humidity Range			Operation / Storage : 35 ~ 85 % R.H. (No condensation)			
Weight (without 2 meter lead wire)				640 g			

NOTE

※1 : CFM (ft³/min × 10⁻²) and ft³ × 10⁻²

※2 : Based on dry compressed air and measured by KITA standard flow meter as a reference for other gas

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

※4 : Benchmark : Inlet Pressure : 350 kPa, Outlet Pressure : 1 atmospheric pressure, 25 °C

※5 : Switchable, please follow the manual for setup