

FCON

CREATION OF NEW VALUE

Product Catalogue

About Us

FCON CO., LTD.

《CREATION OF NEW VALUE》

We aim to become a company that is continuously welcomed by society by providing products and services that based on unique technology and new value creation.

Our main business includes design and development, manufacture and sale of mass flow controllers and their applied products.

We also keep challenging new business area.

FCON CO., LTD.

President and CEO

Kuniaki YAMANAKA

[What is a Mass Flow Controller]

A mass flow controller is a device used to control the flow rate by measuring the mass flow rate of fluid and gases. It is possible to control the flow rate stably with high accuracy because it is not required to be corrected due to the change of temperature or used pressure.

Flow control by volume flow such as flow meters and needle valves, are required to be corrected due to the change of temperature or pressure when they require a certain degree of the accurate flow rate.

Mass flow controllers and mass flow meters have been used for the field of semiconductor and flat panel display that require the high accuracy of measurement and control. In addition, they have been used in the wide variety of processes such as in the field of analysis, fuel cell, liquid crystal, organic EL, biotechnology, food, environmental measurement, combustion gas control, factory equipment, laboratory equipment and etc.

We aim to design and manufacture products that can be used in a wide range of fields. Therefore, FCON's mass flow controllers / mass flow meters are designed improving performance and reliability through original technology pursuing basic performance.

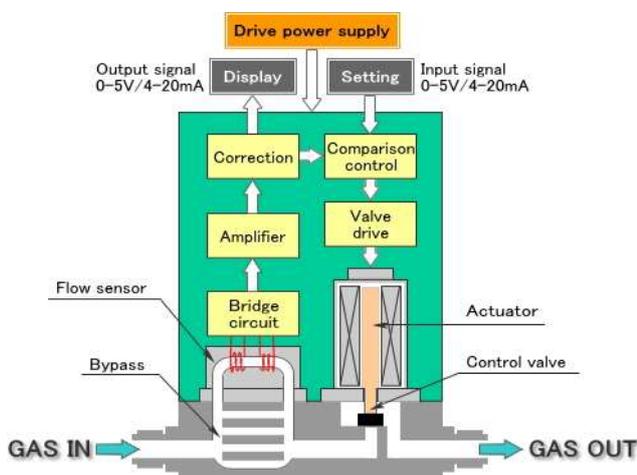
[Principle and Structure of Mass Flow Controller]

The mass flow controllers are constructed from flow sensor, bypass, valve and the control circuit as shown in the figure below.

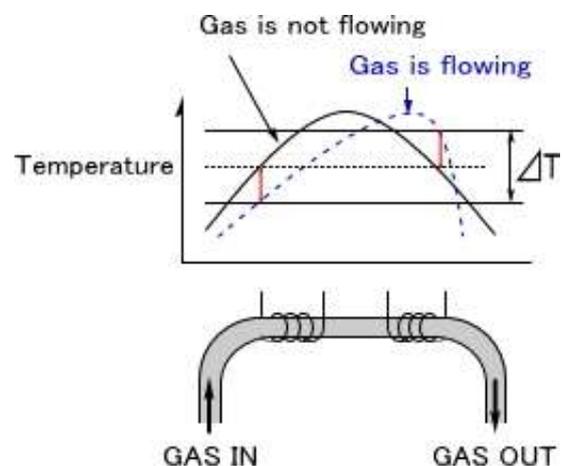
In general, the flow sensor used is called thermal flow sensor. Two resistors generate heat when electric current flows through these that are wound on the upstream side and the downstream side, around the stainless capillary tube.

When no gas is flowing in the capillary tube, the heat of the upstream and downstream sides of the resistor is kept equilibrium and the flow rate output signal shows zero.

Gas entering from the entrance is divided into the sensor and a bypass. When the gas begins to flow into the sensor, a temperature difference occurs between the upstream and the downstream resistors, thermal balance is lost and the temperature distribution of the sensor changes. This change is captured by the bridge circuit as flow rate output signal. Compare the external flow rate setting signal (0 to 5V) and the flow rate output signal of the sensor, the flow control valve performs PID operation (proportional, integral, derivative) to match the signal level. Since the valve opening is fine-tunes and adjust automatically, it is possible to control the flow rate under the setting condition.



■ Structure of Mass Flow Controller



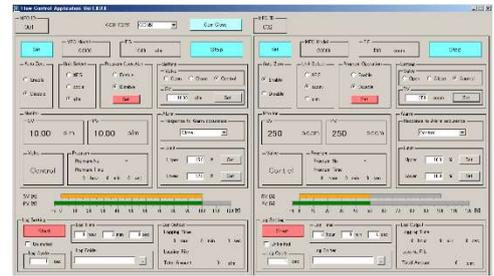
■ Temperature distribution of Flow Sensor

Digital Mass Flow Controller
With Built-in Display
2000 series



《Features》

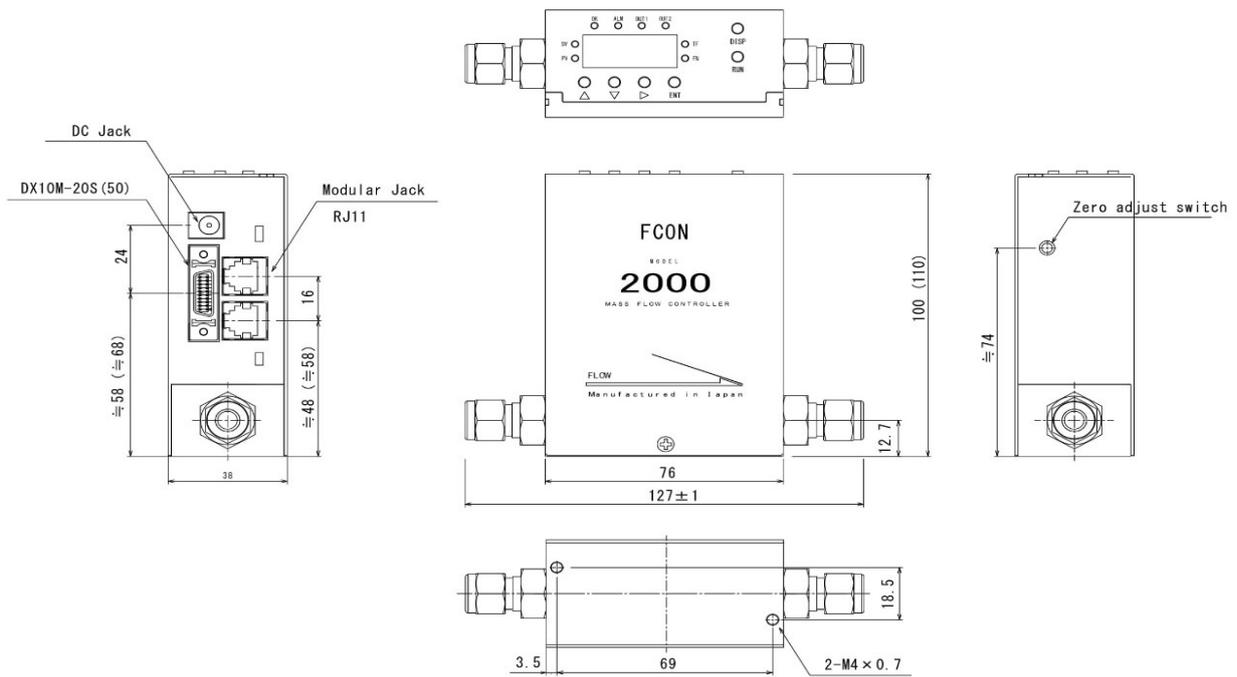
- Built-in display setting unit, setting control is possible only with the main unit.
- Driving power is DC24V single power supply (500mA or more AC adapter can be used).
- Compact size to realize small size and space saving.
- Simple installation to various equipment.
- Digital communication: RS485 communication.
- Analog signal: 0-5V and 4-20mA can be switched.
- Equipped with an abnormal flow rate alarm function.
- Equipped with accumulation function.
- Digital Control Application Software.
- Calibration certificates, calibration reports and traceability schemes can be produced upon request for an additional fee.



【Specification】

Mass Flow Controller	C2005	C2020	
Mass Flow Meter	M2005	M2020	
Flow range (N2 equivalent)	10 SCCM~5SLM	10 SLM	20 SLM
Gases	Air, nitrogen, carbon dioxide, argon, hydrogen, helium, oxygen		
Valve type	Normally Closed (Excluding Mass Flow Meter)		
Flow rate control range	2-100% F.S. (Excluding Mass Flow Meter)		
Accuracy	±1% F.S. (Accuracy guaranteed between 15-35°C)		
Setting signal	Setting section of main unit, Digital: RS485, Analog: 0-5V and 4.3-20mA can be switched (Excluding Mass Flow Meter)		
Output signal	Main unit display: 7-segment LED, Digital: RS485, Analog: 0-5V and 4-20mA can be switched		
Repeatability	±0.2% F.S.		
Response speed	≤2sec		
Operating differential pressure	50-300 kPa	100-300 kPa	200-300kPa
Pressure resistance	1 MPa(G)		
Operating temperature	5~50°C (Accuracy guaranteed between 15~35°C)、≤85%RH (No condensation permitted)		
Leak integrity	1×10 ⁻⁷ Pa·m ³ /sec He		
Mounting attitude	Not Specified (Free)		
Drive power source	+24VDC : ≥500mA		
Communication	RS485, Analog: 0-5V and 4-20mA can be switched		
Wetted surface material	SUS316, PTFE, Fluoro-Rubber		
Seal material	Fluoro-Rubber		
Actuator system	Solenoid (Excluding Mass Flow Meter)		
Surface finishing	Machined finish		
Standard fitting	1/4inch.SWL (equivalent) ※: For other fitting, please contact us.		

«Dimensions»



All dimensions are in inches with [mm] in brackets

«Ordering»

C 2005 – 4S2 – 1L – N2 (e.g.)

① ② ③ ④ ⑤

① Type C : Controller M : Meter

② Flow range 2005 (10 SCCM ~ 5 SLM) 2020 (10 SLM, 20SLM)

③ Fittings (*1) 4S2 : 1/4in.SWL(equivalent) KQ2 : One-touch fittings

④ Full scale(*2) e.g. : 50 SCCM→50 5 SLM→5L 10 SLM→10L

⑤ Type of gas (*3) N2, Air, Ar, O2, H2, He, CO2 etc.

*1. For other fitting, please contact us.

*2. At FCON, flow rates (SCCM, SLM) are converted to values at 0°C, 101.3kPa abs (1atm) for calibration.

Please specify separately if you wish to calibrate at 20 °C or 25 °C.

*3. Gas type is an example; please contact us for other gases.

«Signal cable» (sold separately)

- AC adapter for C2000 : +24 VDC (DC22.8 ~ 25.2 V, 500 mA and above) (recommend)
- C2000 RS485 Communication Conversion Unit with Digital Control Application Software
- C2000 RJ11 – RJ11 Communication Cable
- Analog Communication Cable

Please feel free to contact us for more details.

The contents of this catalog are subject to change without notice.

Analog Mass Flow Controller

1000 Series



《Features》

- It is an analog model specializing the basic functions of the mass flow controller.
- Performance and reliability are improved with basic functions that pursue original technology.
- Two types of Power Supply Control, Floor-standing "PA01S" and Panel Mount "PA01PS".
- Compact size.
- Suppression of Flow surge (overshoot) at the start (Requires more than 30 seconds of interval).
- Input & Output Signal : Analog (0~5VDC)
- To control the mass flow controller, a separate control power supply and a signal cable are required.
- Calibration certificates, calibration reports and traceability schemes can be produced upon request for an additional fee.

Option: Possible to manufacture a flow rate accuracy of $\pm 1\%$ F.S.

【Specification】

(※) under development

Mass Flow Controller (N.O.)	C1005	C1020	C1030	C1050	C1100
Mass Flow Controller (N.C.)	C1005 NC	C1020 NC (※)	C1030 NC (※)	C1050 NC (※)	-
Mass Flow Meter	M1005	M1020	M1030	M1050	-
Flow range (N2 equivalent)	10,20,30,50,100,200 300,500 SCCM 1,2,3,5 SLM	10,20 SLM	30 SLM	50 SLM	100 SLM
Gases	N2, Air, Ar, O2, H2, He, CO2 etc. (Please consult with us about corrosive gas)				Air • N2
Valve type	NO: Normally Open NC: Normally Closed (Excluding Mass Flow Meter)				
Flow rate control range	5-100% F.S (Excluding Mass Flow Meter)				
Accuracy	$\pm 2\%$ F.S (Accuracy guaranteed between 15-35°C)				
Setting signal	0.25-5VDC (Excluding Mass Flow Meter)				
Output signal	0-5VDC				
Repeatability	$\pm 0.2\%$ F.S.			$\pm 0.5\%$ F.S.	
Response speed	≤ 6 sec			≤ 10 sec	≤ 15 sec
Operating differential pressure	50-300 kPa (C1020NC, 100~300kPa)		200-300 kPa		
Pressure Resistance	1 MPa(G)				
Operating temperature	5~50°C (Accuracy guaranteed between 15~35°C)、 $\leq 85\%$ RH (No condensation permitted)				
Leak Integrity	1×10^{-7} Pa • m ³ /sec He				
Mounting attitude	Not Specified (Free)				
Drive power source	+15VDC : 60mA、-15VDC : 150mA				
Communication	Analog 0-5 VDC				
Wetted surface material	SUS316, PTFE, PEEK, Fluoro-Rubber				
Seal material	Fluoro-Rubber				
Actuator system	Thermal (Excluding Mass Flow Meter)				
Surface Finishing	Machined finish				
Standard fittings	1/4in.SWL (equivalent), One-touch fittings, ※ For other fitting, please contact us.				

Control Unit

PA01PS
PA01S



«Features»

- Cost effective and easy to use.
- Floor-standing "PA01S" and Panel Mount "PA01PS".
- Compact size.
- Flow rate display and setting functions.
- Mass flow power supply : ± 15 VDC
- Input/output : Analog Signal (0 ~ 5 VDC)
- Output voltage (0 ~ 5 VDC) output terminal is at the back of the unit as standard set up.

【Specification】

Model	PA01PS (Panel mount type) / PA01S (Floor standing type)
Input Power	AC100 - 240 V
Mass flow power	0~5 VDC : Setting Signal +15 VDC : 300 mA -15 VDC : 200 mA
Mass flow control	10-turn potentiometer
Mass flow output	0~5 VDC
Flow rate setting / output display	0~100% (*1)
Display switching (setting/output)	Toggle switch
Connector	D-sub9Pin female
Operating environment	5~50°C (Accuracy guaranteed between 15~35°C)、 $\leq 85\%RH$ (No condensation permitted)
Mass flow input/output	0~5 VDC (Linked to the display switching toggle switch)

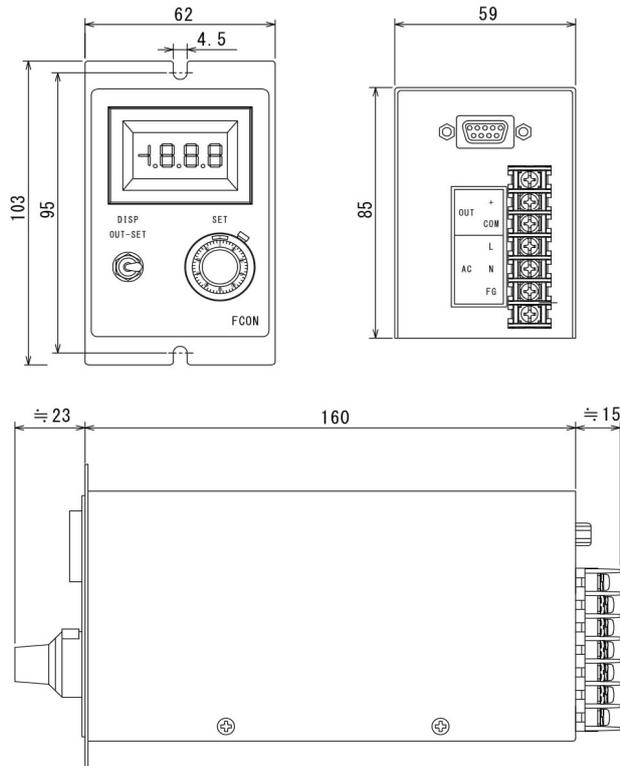
*1. Flow rate display setting changes is possible.

«1000 series connection»

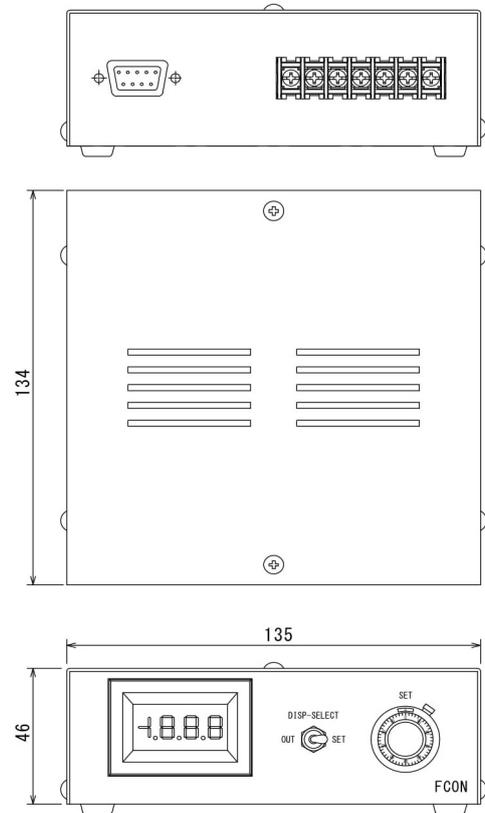


«Dimensions»

PA01PS

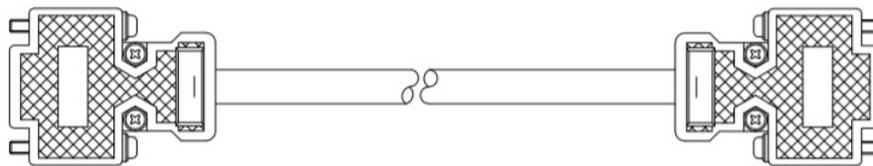


PA01S



All dimensions are in inches with [mm] in brackets.

«Analog Cables SC0x (Optional) »



- Signal Cable : MFC side D-sub9 female connector ↔ Power supply side D-sub9 male connector
You can order the standard 1 meter, 2 meters, and 3 meters length cable.
Custom-length cable is available.

Mass Flow Control / Measurement Unit

CUBE MFC



«Features»

- Compact and lightweight integral unit.
- Easy flow measuring and controlling
- Flow rate display: Display (SET / OUT selector switch)
- Output voltage (0 - 5 VDC) output terminal is at the back of the unit as standard set up.
- Upon request, Calibration certificate, Calibration report, and Traceability scheme can be prepared with additional charges.

Option: Possible to manufacture a flow rate accuracy of $\pm 1\%$ F.S.

[Specification]

Model : Controller (N.O)	CUBE MFC 1005/1020/1030/1050/1100
Model : Controller (N.C)	CUBE MFC 1005NC (※ under development : 1020NC/1030NC/1050NC)
Model : Meter (M)	CUBE MFM 1005/1020/1030/1050
Mass Flow Controller (*1)	1000 series
Flow range	10 SCCM~100 SLM
Operating temperature	5~50°C (Accuracy guaranteed between 15~35°C)、 $\leq 85\%$ RH (No condensation permitted)
Standard fitting	1/4in.SWL (equivalent), One-touch fittings, ※ For other fitting, please contact us.
Setting signal/Mass flow control	0.25~5 VDC 10-turn potentiometer
Output signal	0~5 VDC
Flow rate setting / output display	0~100% (*2)
Display switching (setting / output)	Toggle Switch
Output terminal	Setting signal/Output signal : 0~5 VDC
Input power	AC100-240 V

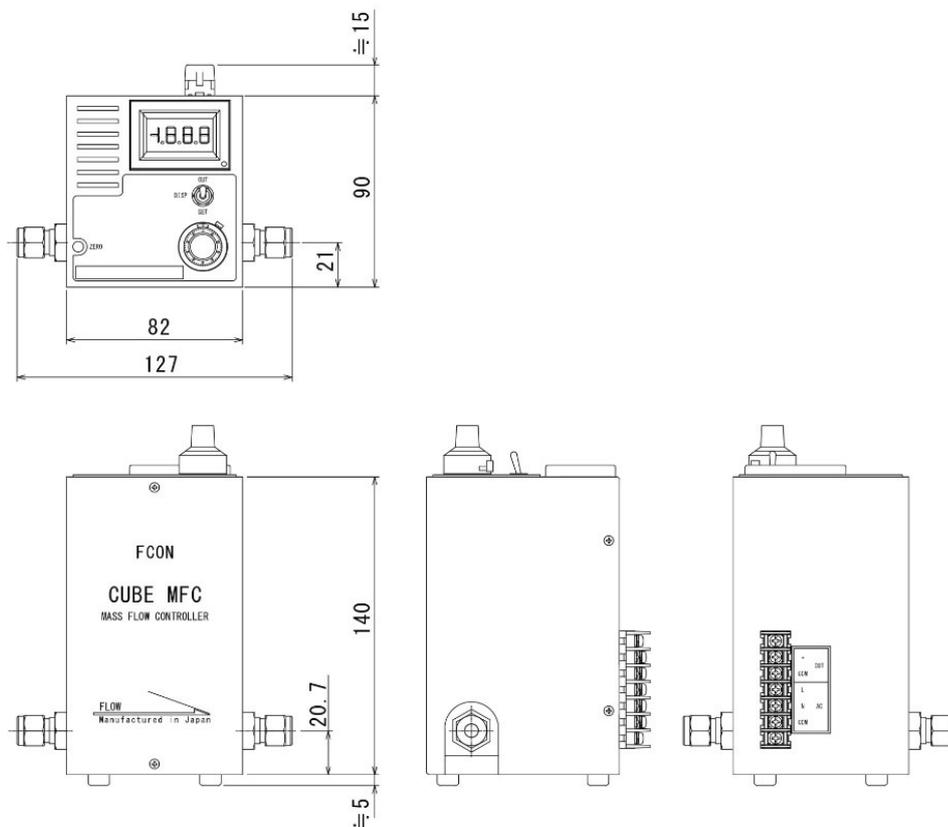
*1. Mass flow controller is conform to 1000 series specification.

*2. Flow rate display setting changes is possible.



Can be used both horizontally and vertically

«Dimensions»



All dimensions are in inches with [mm] in brackets

«Ordering»

CUBE MF C 1005 NC – 4S2 – 1L – N2 (e.g.)

① ② ③ ④ ⑤ ⑥

① Type C:Controller M:Meter

② Flow range 1005(10 SCCM~5 SLM) 1020(10~20 SLM) 1030(30 SLM)
1050(50 SLM) 1100(100 SLM)

③ Valve type w/o: Normally open NC: Normally closed (1100 not covered)

④ Fitting4S2 1/4inch.SWL(equivalent) KQ2 One-touch fittings

⑤ Full scale (*1) e.g. :50→50 SCCM 5L→5 SLM

⑥ Gas types (*2) N2, Air, Ar, O2, H2, He, CO2 etc.

*1. At FCON, flow rates (SCCM, SLM) are converted to values at 0°C, 101.3kPa abs (1atm) for calibration.

Please specify separately if you wish to calibrate at 20 °C or 25 °C.

*2. Gas type is an example; please contact us for other gases.

The contents of this catalog are subject to change without notice.

Gas flow Meter

GFM Series

《Features》

- Equipped with a mass flow sensor
- Supports up to 200 LM in compact size
- Low pressure loss
- Flow output signal : Analog 0 - 5VDC
- A dedicated power supply and signal cable are required

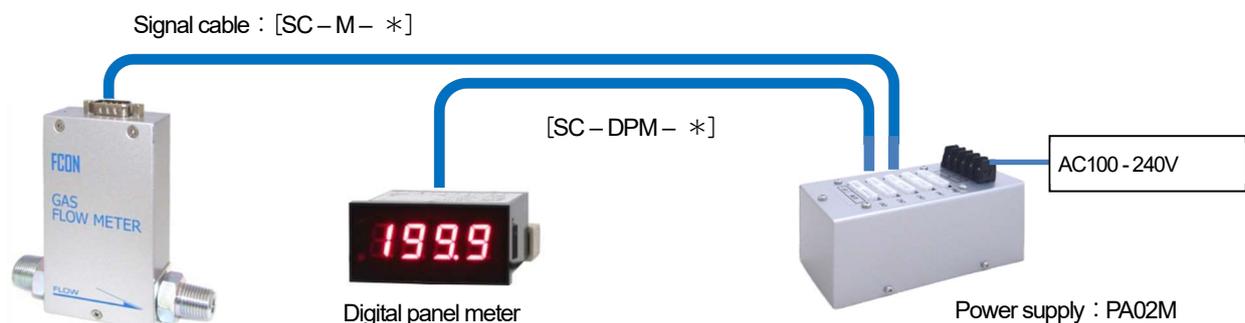


【Specification】

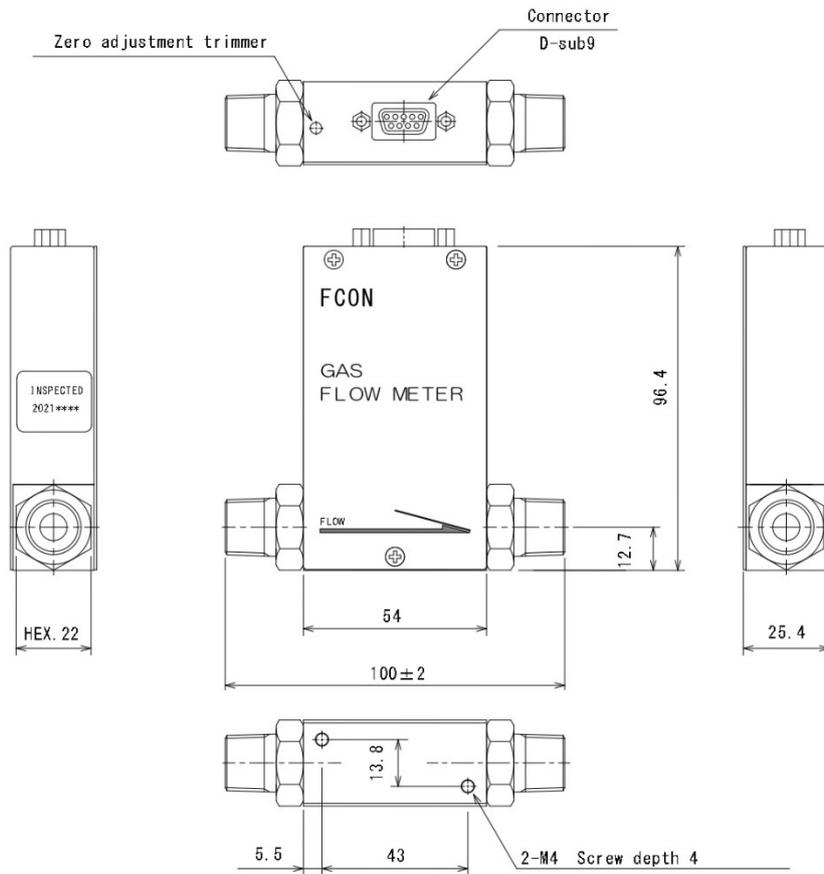
Model	GFM050	GFM100	GFM200
Flow range	50 LM	100 LM	200 LM
Gases	Air , N2		
Flow rate range	0 - 100% F.S.		
Flow rate accuracy	0 - 19% ± 3% F.S. , 20 - 100% ± 2% F.S. (25°C)		
Repeatability	± 0.5% F.S.		
Response speed	≤ 10 sec		
Pressure resistance	1 MPa(G)		
Flow output signal	Analog: 0 - 5 VDC		
Operating temperature	5 - 50°C (Accuracy guaranteed between 15 - 35°C)、≤ 85% RH (No condensation permitted)		
Mounting attitude	Not Specified (Free)		
Drive power source	± 15VDC ± 5% (DC 40mA)		
Communication	Analog 0 - 5 VDC		
Seal material	Fluoro-Rubber		
Wetted surface material	Aluminum(A6061),SUS316,SS(Trivalent chromate plating),Fluoro-Rubber		
Standard fittings	3/8R (Male)	SS(Trivalent chromate plating)	
Weight	approx. 300g		

《Example of wiring》

Optional : A dedicated power supply and signal cable are required



《Dimensions》



All dimensions are in inches with [mm] in brackets.

《Ordering》

GFM050 – 3/8R – 50LM – N2 - 4

① ② ③ ④ ⑤

① Model /Flow range GFM050(50LM) GFM100(100LM) GFM200(200LM)

② Fitting 3/8R (male)

③ Full scale 50 LM 100 LM 200 LM

④ Gas types Air Nitrogen (N2)

⑤ Connection pipe diameter(*1) 4 : 1/4 inch. 6 : 3/8 inch. 8 : 1/2 inch. 4M : 4mm 6M : 6mm 10M : 10mm

*1 Please specify the pipe diameter of the gas line to be installed.

※ AT FCON, flow rates(LM,CCM) are converted to values at25°C, 101.3kPa abs (1atm) for calibration.

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PA02M Power supply

(GFM dedicated power supply)



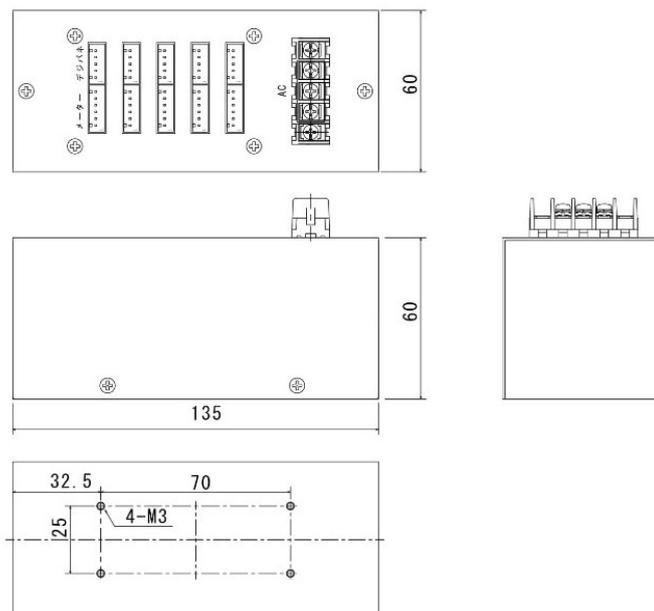
«Features»

- Compact size
(W135 ×H60 (Excluding protrusions) ×D60mm)
- 5 line connection
※Please use within the power output range.
- Meter (GFM) power supply: ± 15 VDC
- Display power supply : + 5 VDC

[Specification]

Model		PA02M
Output power	GFM power supply	+15 VDC : 0.3A -15 VDC : 0.2A
	Display power supply	+5 VDC : 2A
Number of connection		Maximum : 5
Flow output signal		Analog 0 - 5 VDC ※Output to the display when the cable is connected.
Connector		B5B-XH-A(LF)(SN) : Display (5 core) B6B-XH-A(LF)(SN) : GFM (6 core)
Operating environment		5 - 50°C 、 ≤85%RH (No condensation permitted)
Input Power		AC100 - 240 V

«Dimensions»

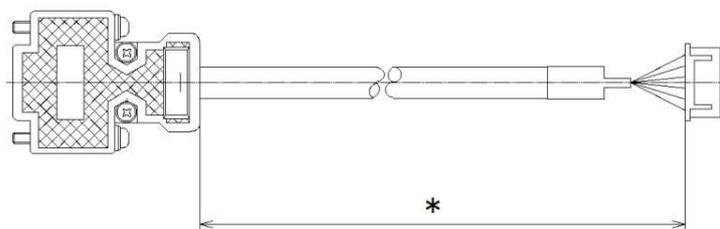


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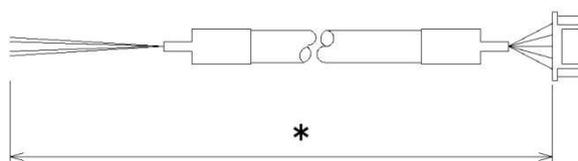
※Fixing screw (M3): The screwing depth into the housing should be up to 2 mm.

«Optional»

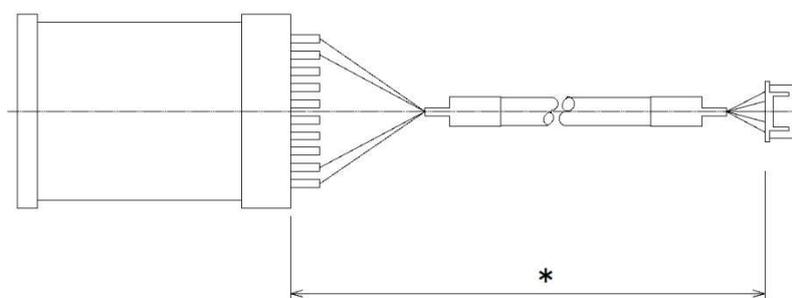
- Signal cable between GFM and PA02M
Model : SC - M - *



- Signal cable between PA02M and Digital panel meter
Model : SC - PM - *



- Digital panel meter with signal cable
Model : SC - DPM - *



- ※ Standard length of signal cable 1 , 2 , 3 m (More than 4m is order made.)
- ※ *The choice of cable length.
e.g. : SC - M - 1M

Model*	Cable length
1M	1m
2M	2m
3M	3m

Economical Gas Mixer

CUBE GM series



«Features»

- All-in-one unit with mass flow controller, control power supply, valve, check valve and gas mixer
- This gas mixer unit type consists of mass flow controller C1000 series and power supply control PA01PS.
- Equipped with a mass flow controller to supply a stable gas mixture that is not easily affected by pressure and temperature.

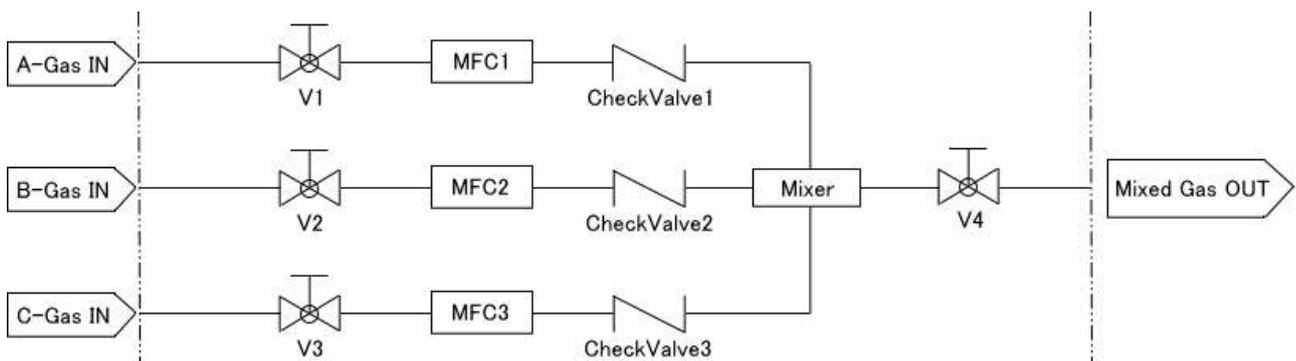
[Specification]

Model	CUBE GM2 (two gases) /CUBE GM3 (Three gases) /CUBE GM4 (Four gases)
Built-in MFC	C1000 series (manufactured by FCON) or FCST1000 series (manufactured by Fujikin)
Flow range (*1)	≤50SLM (Total flow rate)
Flow rate control range	Conform to built-in mass flow controller specification
Operating differential pressure	Conform to built-in mass flow controller specification
Pressure Resistance	Conform to built-in mass flow controller specification
Operating environment	5~50°C (Accuracy guaranteed between 15~35°C), 85%RH (No condensation permitted)
Wetted surface material	SUS316, PTFE, Fluoro-Rubber and built-in mass flow controller material
Standard Fitting	1/4inch.SWL (equivalent) ※For other fitting, please contact us.
Mass flow control	Conform to PA01PS power supply control
Flow rate setting/output display	0~100% (*2)
Input power	AC100-240 V

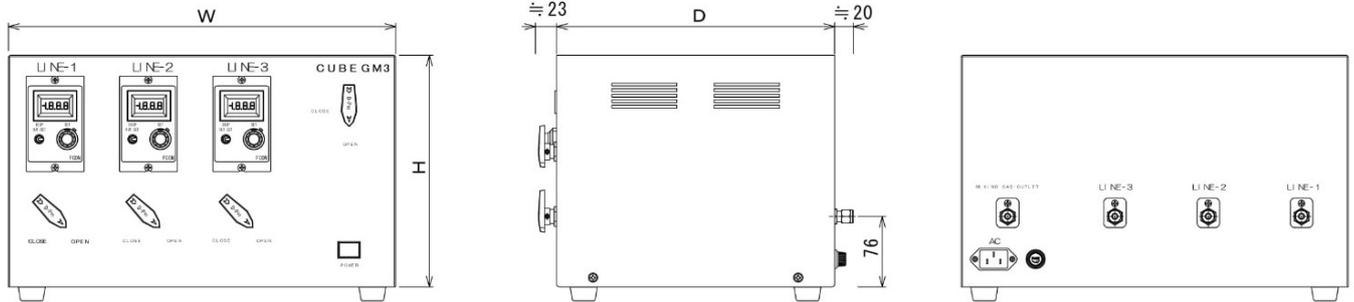
*1. At FCON, flow rates (SCCM, SLM) are converted to values at 0°C, 101.3kPa abs (1atm) for calibration.

*2. Flow rate display setting changes is possible.

[Flow Diagram (e.g. : 3 gases)]



《Dimensions》



CUBE GM2 : W315×D298×H250(mm) ※Not including protrusions.
 CUBE GM3 : W415×D298×H250(mm) ※Not including protrusions.
 CUBE GM4 : W515×D298×H250(mm) ※Not including protrusions.

《Ordering》

CUBE GM3

①

① Mixing gases (*1)

GM2 Two gases

GM3 Three gases

GM4 Four gases

*1. More than four gases, please contact us.

We can design and manufacture upon request in addition to standard products,

Touch panel Gas Mixer
CUBE GM-X series



《Features》

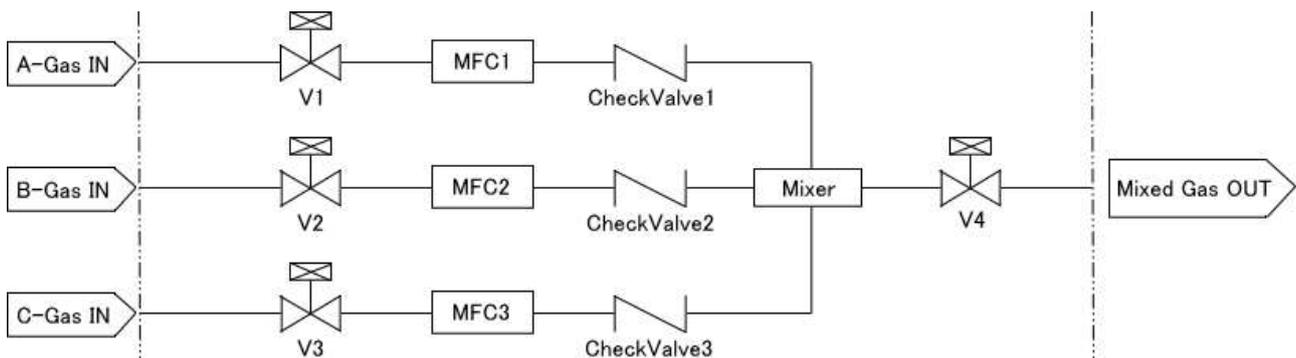
- All-in-one unit with mass flow controller, control power supply, valve, check valve and gas mixer
- Program operation : Flow rate and time is possible to set for each line with program.
- Alarm function : Based on each line upper and lower limit setting, alarm sound if flow rate abnormality occurs
- Unit type gas mixer
- Equipped with a mass flow controller to supply a stable gas mixture that is not easily affected by pressure and temperature.

【Specification】

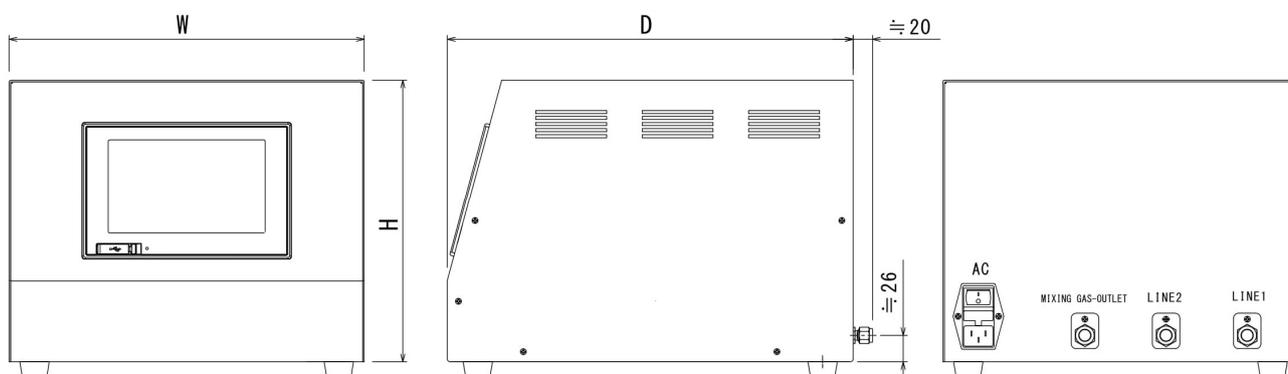
Model	CUBE GM-X2 (Two gases) / CUBE GM-X3 (Three gases) / CUBE GM-X4 (Four gases)
Built-in MFC	C1000series / C2000series (manufactured by FCON) or FCST1000series (manufactured by Fujikin)
Flow range (*1)	≤50 SLM (Total flow rate)
Flow rate control range	Conform to built-in mass flow controller specification
Operating differential pressure	Conform to built-in mass flow controller specification
Pressure Resistance	Conform to built-in mass flow controller specification
Operating environment	5~50°C (Accuracy guaranteed between 15~35°C), 85%RH (No condensation permitted)
Wetted surface material	SUS316, PTFE, Fluoro-Rubber and built-in mass flow controller material
Standard Fitting	1/4inch.SWL (equivalent) ※For other fitting, please contact us.
Mass flow control	Touch panel operation
Input power	AC100-240 V

*1. At FCON, flow rates (SCCM, SLM) are converted to values at 0°C, 101.3kPa abs (1atm) for calibration.

【Flow Diagram (e.g. : 3 gases)】



《Dimensions》



- CUBE GM-X2 : W350×D400×H280(mm) ※Not including protrusions.
CUBE GM-X3 : W430×D400×H280(mm) ※Not including protrusions.
CUBE GM-X4 : W510×D400×H280(mm) ※Not including protrusions.

《Ordering》

CUBE GM-X3

①

① Mixing gases (*1)

- GM-X2 Two gases
- GM-X3 Three gases
- GM-X4 Four gases

*1. More than four gases, please contact us.

We can design and manufacture upon request in addition to standard products,

Touch panel Gas Mixer

(Buffer tank specification)

CUBE GM-X α series



《Features》

- All-in-one unit with mass flow controller, control power supply, valve, check valve and gas mixer
- Program operation : Flow rate and time is possible to set for each line with program.
- Alarm function : Based on each line upper and lower limit setting, alarm sound if flow rate abnormality occurs
- The buffer tank pressure is constantly monitored, when the pressure falls below a certain level, gas is automatically supplied to the buffer tank at the flow rate set (automatic stop and automatic restart pressure are fixed values). Easy to move with equipped caster with brake.
- Equipped with a mass flow controller to supply a stable gas mixture that is not easily affected by pressure and temperature.

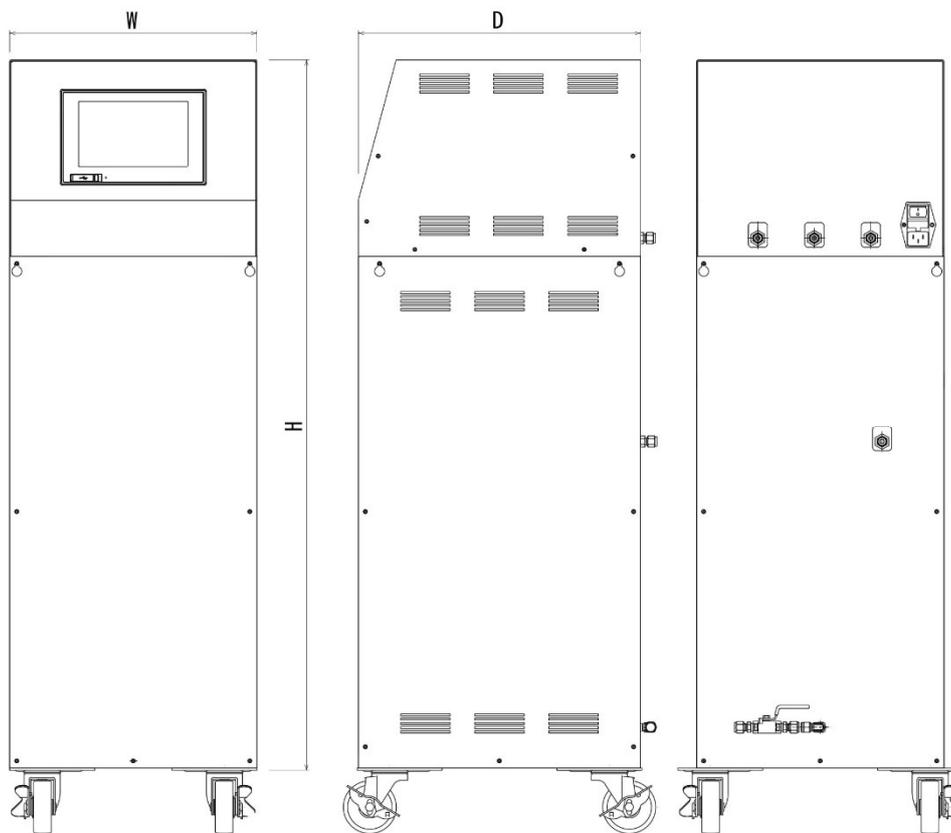
[Specification]

Model	CUBE GM-X α 2 (Two gases) /CUBE GM-X α 3 (Three gases) /CUBE GM-X α 4 (Four gases)
Built-in MFC	C1000series /C2000series(manufactured by FCON) or FCST1000series (manufactured by Fujikin)
Flow range (*1)	≤ 50 SLM (Total flow rate)
Flow rate control range	Conform to built-in mass flow controller specification
Operating differential pressure	Conform to built-in mass flow controller specification
Pressure Resistance	Conform to built-in mass flow controller specification
Operating environment	5~50°C (Accuracy guaranteed between 15~35°C), 85%RH (No condensation permitted)
Wetted surface material	SUS316, PTFE, Fluoro-Rubber
Standard Fitting	1/4inch.SWL (equivalent) ※For other fitting, please contact us
Mass flow control	Touch panel operation
Tank volume (*2)	10 L, 20 L
Tank operating pressure	0.49 MPa 以下
Input power	AC100-240 V

*1. At FCON, flow rates (SCCM, SLM) are converted to values at 0°C, 101.3kPa abs (1atm) for calibration.

*2. Other tank volume please kindly discuss with us.

«Dimensions»



CUBE GM-Xα2 : W350×D400×H1100(mm) ※Not including protrusions.
CUBE GM-Xα3 : W430×D400×H1100(mm) ※Not including protrusions.
CUBE GM-Xα4 : W510×D400×H1100(mm) ※Not including protrusions.

«Ordering»

CUBE GM-Xα3

①

① Mixing gases (*1)

GM-Xα2 Two gases

GM-Xα3 Three gases

GM-Xα4 Four gases

*1. More than four gases, please contact us.

We can design and manufacture upon request in addition to standard products,

The contents of this catalog are subject to change without notice.

Company Profile

We are the manufacturer of flow control devices such as Mass Flow Controllers (MFC).

We have been providing wide range of flow control devices catering to our customers' needs. From designing and manufacturing of standard and customize devices by our own.

Mass flow controllers are the devices to measure the mass flow of gases and liquids in order to regulate the flow, indispensable for the processes requiring high-precision flow measurement. Because of the high prices of these devices, however, their uses have been confined to specific fields.

Our mass flow controllers are the devices that realizing the reasonable cost while retaining their basic functions. They can be used for wide variety of fields ranging from general industry, mounts for various kinds of production devices, and for research and development.

«Management Philosophy»

■ New value and market creation

We are creating a new market, which products and services from the user's perspective by ideas and creation which is not particular about the existing concept.

■ Customer satisfaction is our existence value

We raise our existence value by providing valuable products and service for customers.

■ Work environment with hopes and dreams

To create a rewarding workplace where employees are always motivated and fully demonstrate their potentials, have dreams and hopes for the future.

«Company Profile»

Company Name	FCON, CO., Ltd.
President and CEO	Kuniaki Yamanaka
Establishment	July 2013
Capital	JPY 10,000,000
Business Content	Manufacturing and sale of various flow controllers
Head Office	#109 Nankoku Office Park Center, 1-1-1 Hotarugaoka, Nankoku-shi, Kochi, 783-0060, Japan
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【MEMO】

FCON

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