

Digital Mass Flow Controller
With Built-in Display
2000 series



《Features》

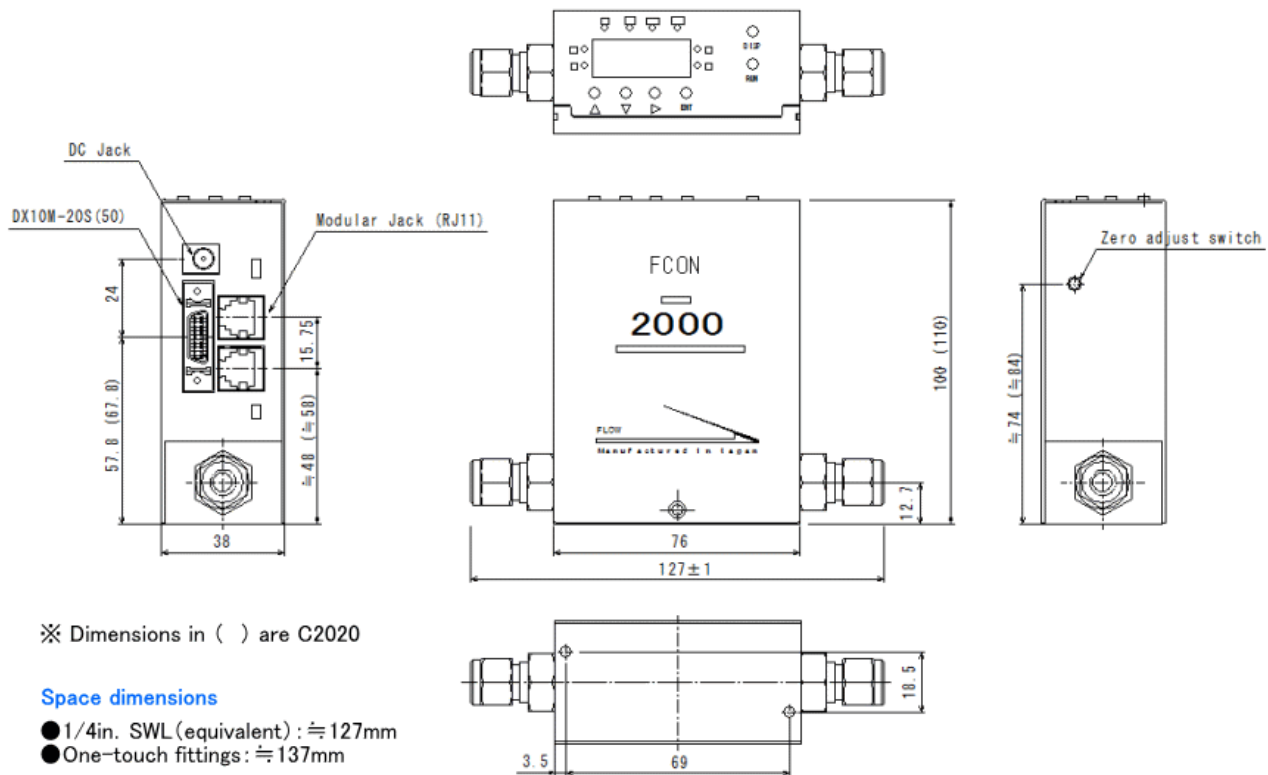
- Built-in display setting unit, setting control is possible only with the main unit.
- Driving power is DC24V single power supply (500mA or more AC adapter can be used).
- Compact size to realize small size and space saving.
- Simple installation to various equipment.
- Digital communication: RS485 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.
- Upon request, Calibration certificate, Calibration report, and Traceability scheme can be prepared with additional charges.



【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	1/4in.SWL (equivalent) ※ For other fitting, please contact us.		

«Dimensions»



«Ordering»

C 2005 – 4S2 – 1L – N2

① ② ③ ④ ⑤

① Type

C Controller
M Meter

④ Full scale(*2)

50 50 SCCM
5L 5 SLM
10L 10 SLM

*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.

② Series

2005 10 SCCM ~ 5 SLM
2020 10 SLM, 20SLM

⑤ Type of gas (*3)

N2, Air, O2, H2, He
CO2 etc.

③ Fittings (*1)

4S2 1/4in.SWL(equivalent)
KQ2 One-touch fittings

«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.