

MERIT SERIES ULTRASONIC FLOW METER

High Performance Signal Processing Solution



Model _ MERIT 100

Model _ MERIT 200





www.snc21.co.kr



SNC Co.,Ltd 20, Smart sandan 1-ro, Eumbong-myeon, Asan-si, Chungcheongnam-do, 31418 Korea Tel. 041. 529. 3800 Fax. 041. 568. 5880





Model _ MERIT 300



Model _ MERIT 400

www.snc21.co.kr

MERIT 100 ULTRASONIC FLOW METER

Comprehensive Solutions Liquid Flow Meter

SNC's ULTRASONIC FLOW METER, a comprehensive solution, is a non-contact flow meter for semiconductors and industries.

an and the second se

....... 111111

Function

Osna

- High-quality and high-precision semiconductor and industrial non-contact flow meter
- Enables monitoring of high flow rates according to communication RS-485 (Modbus)
- Protected from the external power noise by the power disconnection and RFI/EMC shielding of input/output (CE certification)
- 7' Segment 4Digit Display

Feature

- External Output Built-In Analog Out : 4-20 mA (16 bits) -Output for Sol Valve control
- Various chemical solutions such as DI, nitric acid, sulfuric acid, hydrogen peroxide, hydrofluoric acid, ammonia water, and SC-1 can be measured
- Minimized footprint with 6-channel AMP integrated configuration (1/4 inch)

Aspect



Monitoring and Integration Flow Meter [ml/min]

through serial communication

Precision flow measurement with ultrasonic wave analysis scope function

Provides a variety of application technologies and Maintenance tools

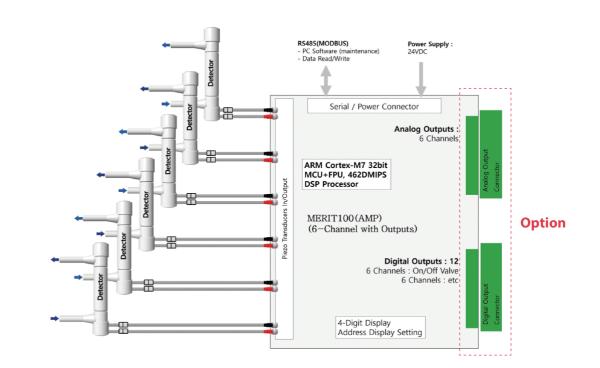


Side

LED screen part

Upper terminal

System Configuration Diagram



Product Specifications

O AMP specification

Contents	Specification	Contents	Specification
Power	DC+24V(±10%)	Measurement target	The whole liquid
Temperature	0~50°C	Fluid temperature (°C)	10 ~ 90°C
Consumption current	Approx. 25.2W(6 Channel)	Fluid pressure (Mpa)	0 ~ 0.35Mpa(Internal pressure 0.5Mpa)
Waterproof design	IP20	Range of sound waves	1000 ~ 2200m/Sec
Communication standard	RS-485(MODBUS)	Waterproof design	IP 65
Product size(mm)	50(W) X 126(L) X 79.5(H)	Body & Tube Material	PFA
Weight	293g(6 Channel)	Standard tube area	1/4 inch, 3/8 inch, 1/2 inch, 3/4 inch
Certified	EN 61326, 55011	Standard Cable Length	(Relay cable) : 2M, 3M, 5M

O Flow Range and Accuracy

Contents	A20(1/4″)	A50(3/8")	
Fluid	d Chemical, Slurry, DIW		
Flow range	0.02 ~ 2.5	0.1 ~ 5.0	
Minimum Unit	1 mL/min		
Tube	6.35(3.96)	9.52(6.35)	
Accuracy	0.05 ~ 0.3(±3)	0.1 ~ 0.6(±6)	
Accuracy	0.3 ~ 2.5(±1%)	0.6 ~ 5.0(±1%)	

MERIT 100

O Detector specification

A200(1/2")	A500(3/4")	Note
0.5 ~ 20	1 ~ 50	L/min
10 mL/min		
12.7(9.53)	19(15.87)	Outer diameter (inner diameter) mm
0.5 ~ 2.0(±20)	1.0 ~ 5.0(±50)	L/min(mL/min)
2.0 ~ 20(±1%)	5.0 ~ 50(±1%)	of RD

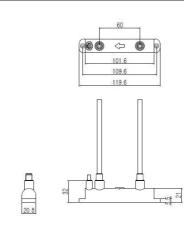
Flow part specification

O 1/4 Inch Liquid Flow Meter (MERIT100 Series)



- Input/output piping 1/4 inch PFA piping
- The distance between the tubes and the distance between the holes may vary by +/- 1 mm depending on the dimensional deviation of the injection and the depth of fusion.
- Screw bolts: M3 wrench bolts

1/4 Inch dimension



O 1/2 Inch Liquid Flow Meter (MERIT100 Series)

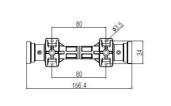


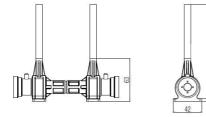
O 3/8 Inch Liquid Flow Meter (MERIT100 Series)



- Input/output piping 3/8 inch PFA piping
- The distance between the tubes and the distance between the holes may vary by +/- 1 mm depending on the dimensional deviation of the injection and the depth of fusion.
- Screw bolts: M3 wrench bolts

3/8 Inch dimension



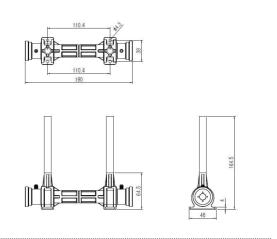


O 3/4 Inch Liquid Flow Meter (MERIT100 Series)



- Input/output piping 1/2 inch PFA piping
- The distance between the tubes and the distance between the holes may vary by +/- 1 mm depending on the dimensional deviation of the injection and the depth of fusion.
- Screw bolts: M4 wrench bolts

1/2 Inch dimension



- Input/output piping 3/4 inch PFA piping
- The distance between the tubes and the distance between the holes may vary by +/- 1 mm depending on the dimensional deviation of the injection and the depth of fusion.
- Screw bolts: M5 wrench bolts

3/4 Inch dimension

