

EPU2 Integrated Clamp-on Ultrasonic Flow Meter



DESCRIPTION

The ultrasonic flow meter adopts a non-invasive design, making it an ideal choice for server cooling systems. The installation process does not require cutting pipes or interrupting server operation, effectively avoiding losses caused by system downtime. Its advanced ultrasonic technology can accurately measure the flow rate changes of cooling water under different temperatures and pressures, ensuring that the server maintains an optimal operating temperature range, improving efficiency and extending lifespan. With these advantages, the integrated clamp-on ultrasonic flow meter has become the preferred solution for AI server cooling water flow control, providing stable and reliable cooling protection for the system.

APPLICATION

AI server cooling system pipelines, PCB wet process cleaning, etching, electroplating flow measurement, and chemical pipeline flow measurement.

FEATURES

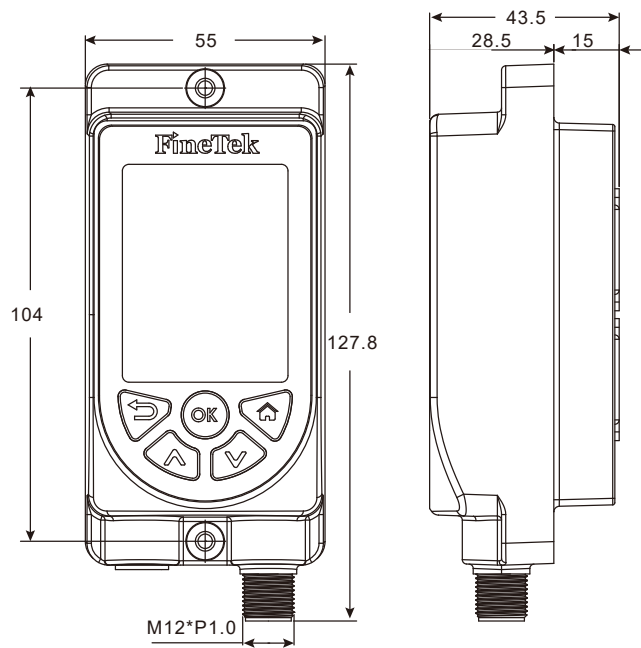
- Simple to operate, easy to use, and supports both horizontal and vertical display, adapting to multi-angle installation requirements.
- Excellent signal processing capability, enabling stable measurement even with gas bubbles in the fluid.
- Flow data storage for up to 10 years, facilitating trend analysis and system performance optimization.
- Isolated output ensures signal transmission stability and resistance to interference.
- Autonomously adjusts ultrasonic transceiver parameters based on fluid characteristics and the environment.
- Easy installation, requiring only a screwdriver and hex wrench for quick setup.
- No need to cut pipes, no need to stop water, no fear of contamination, and quick installation.
- No coupling agent required for installation, reducing maintenance effort and installation time.

SPECIFICATION

Measuring range	0.1~5m/s
Response time	0.5s/1.0s/2.5s/5s/10s/30s/60s
Repeatability	5s:±0.5%, 15s:±0.3%, 30s:±0.25% of F.S.@damping time
Analog output	4 ~ 20 mA · Maximum Load 500Ω
Digital output	NPN output,30Vdc/50mA
Communication	RS-485(Modbus)
Power	20~30VDC
Keypad	5 keys operation
Panel display	320*240 pixels QVGA IPS, LCM 2,4 inch
Total digits	7 Digits
Enclosure material	Aluminum alloy
Ambient temperature	-20~50°C · 0~95% R.H. Non-condensing
Medium temperature	0~60°C
I/O Connector	M12-6pin
Protection level	IP65
Pipe size	DN15,DN20,DN25,DN32,DN40

EXTERNAL DIMENSIONS

(Unit: mm)



ORDER INFORMATION

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⑨⑩⑪ Pipe Diameter

- 015: DN15
- 020: DN20
- 025: DN25
- 032: DN32
- 040: DN40

⑫ Power Supply
D: 24Vdc

⑬ Output Interface
0: 4~20mA/Pulse/RS485

Optional

Part number	Specifications
PC312-22316B2M01	Single head M12, General type 180, PVC, Without lamp, 6C, 2M
PC312-22316B5M01	Single head M12, General type 180, PVC, Without lamp, 6C, 5M
Display transparent cover, material: PE	EPUAM2S-1207000001

