HIKMICRO

HIKMICRO

CLAMP-ON ULTRASONIC FLOW METER



HIKMICRO FU00 series clamp-on ultrasonic flow meter adopts a non-contact measurement method to measure various types of water medium (drinking water, raw water, and sewage). It is not affected by process pressure and medium conductivity. It is an economical and efficient flow measurement solution.

VISIT OUR WEBSITE :

Benefits

- High accuracy level, water medium achieves ±0.5% accuracy at a flow rate of 1m/s~10m/s, and repeatability ≤0.1%
- Installed outside the pipeline, no need to interrupt process operation, no pressure loss
- Supports bidirectional measurement of medium flow direction
- Supports Bluetooth remote debugging to achieve rapid device configuration, transmitter and sensor binding, which improves user operation efficiency
- Automatic evaluation of installation position, automatically recommend installation locations based on signal quality
- Adaptive signal adjustment with optimized signal transmission strategy, ensuring stable and reliable measurement under various working conditions

Clamp-on Ultrasonic Flow Meter



Measured Variables	Flow rate, volume flow
Accuracy and Repeatability (1 ~10 m /s)	Accuracy 0.5%, repeatability 0.1 %
Power Supply (Power Consumption ≤ 10W)	AC: 85~265VAC, 50± 4Hz DC: 24V DC (12 ~36V DC)
Wire System	Four-wire
Output	4 ~ 20 mA HART Output range: 4 ~ 20 mA (NAMUR standard) Load capacity: 700 Ω Resolution : 0.4μA Mode: Active and Passive
	Pulse / function output Optional settings: • Pulse output: Pulse width range 0.05~2,000ms , maximum pulse frequency 10 kHz • Frequency output : Maximum frequency 10 kHz • Function output: Switch value, which can be used to indicate status information, including: diagnostic response, limit value, flow direction check, and status.
	Modbus
Input	• 4 ~ 20 mA input: maximum input voltage ≤ 30V (passive), supports active and passive input. • Switch input: Maximum input value 30V, response time 5 ~200ms configurable. Low level: -3 ~5VDC, High level: 12 ~30VDC
Temperature Compensation	Manual setting, or optional PT1000
Diagnostic Function	Sound velocity, signal amplitude, signal quality
Measuring Pipe Diameter Range	DN50 ~DN1200
Fixing Method	The transmitter supports wall-mounted installation and pipe installation The sensor supports fixture installation and clamp installation
Operating Conditions	Ambient temperature range: -40 ~+60 ℃ Medium temperature range: - 40~+120 ℃ Medium pressure range: static pressure is higher than saturated steam pressure to avoid medium gasification
Pressure Loss	No pressure loss