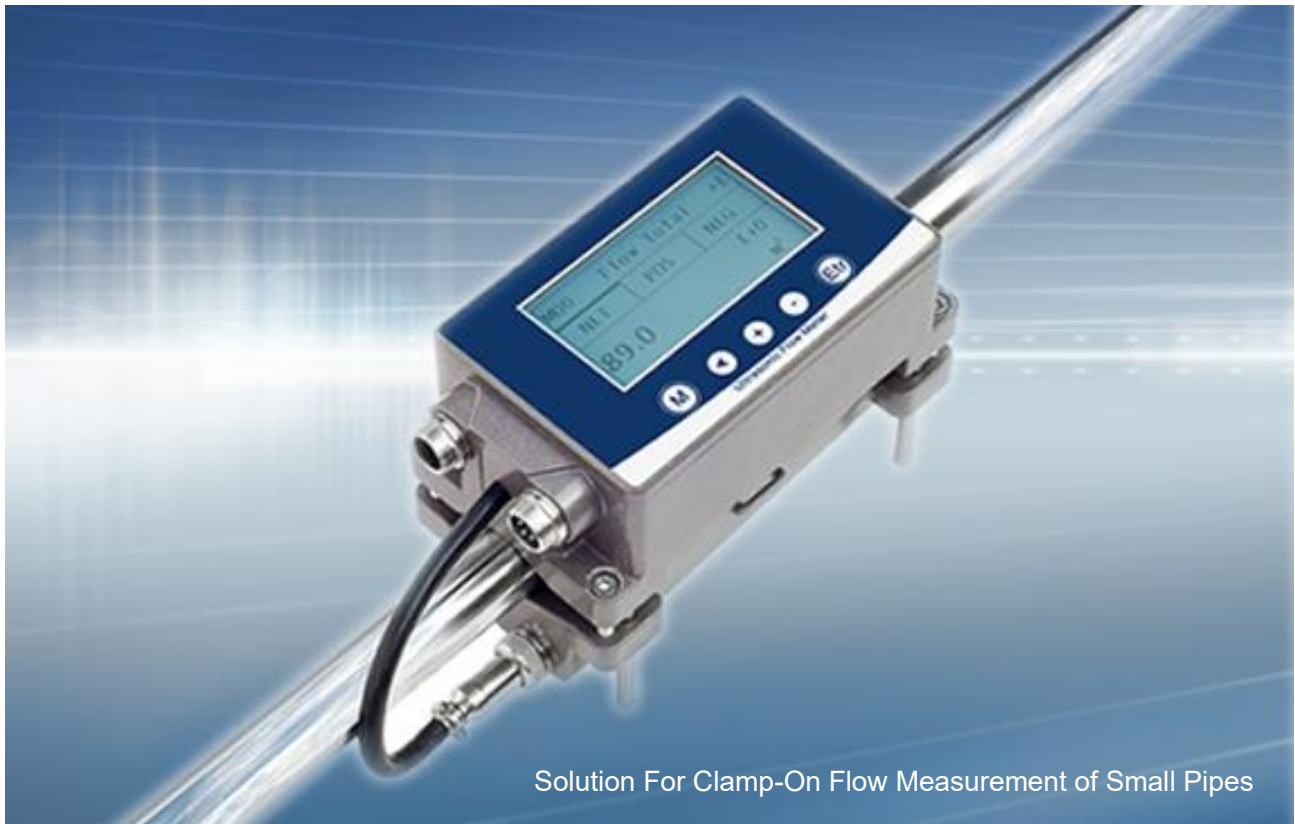# KUF100 Ultrasonic Flow Meter

Solution For Clamp-On Flow Measurement of Small Pipes

Feature

- Simple installation and convenient operation. There is no need to break the pipe or stop for a long time for construction, and the installation can be easily completed within a few minutes.
- It adopts a new clamp-on design without touching the measuring medium. It can avoid pressure loss and medium pollution caused by traditional flowmeters.
- A variety of modes can be set, flexible and diverse.
- A set of machines can be used for all diameters within the measuring range, and is suitable for various metal pipes and resin pipes.
- Super large screen display. The display content is diverse and man-machine friendly.
- It can be selected as an ultrasonic cold (heat) meter to realize the monitoring and measurement of energy consumption.
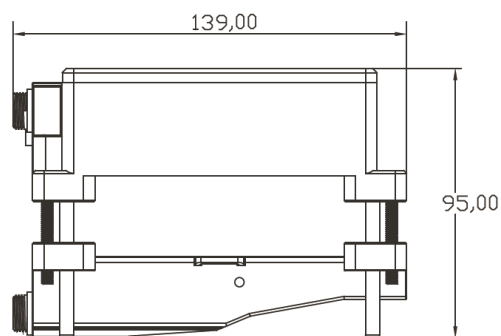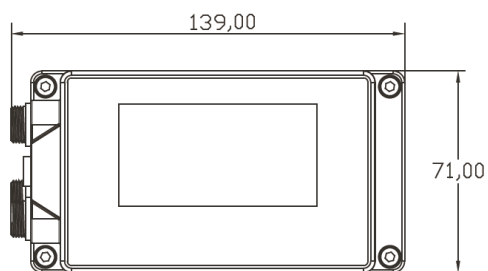
Technical Specifications

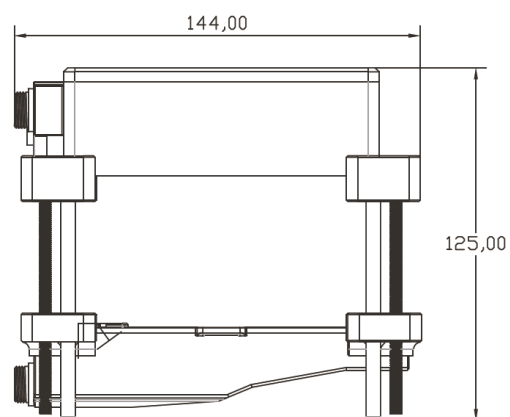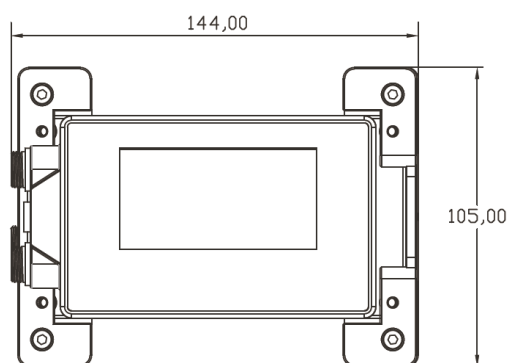|	
Supported Pipe Materials	stainless steel, iron, brass, aluminum, PVC, PP, PVDF and other rigid plastic pipes
Supported Liquid Medium	Water or other (single without solid particles and impurities)
Supported Medium Temperature	0-75°C (no freezing on the surface, high temp, version customizable)
Default Low Flow Cutoff	0.1m/s
Display Method	256*128 backlit LCD
Response Time	0.5~60s
Accuracy Class	±2%, up to ±1% after calibration
Data Storage Period	300 milliseconds
Memory Backup	EEPROM (data storage length: more than 10 years, data read/write frequency: more than 1 million times)
Power And I/O Connectors	M12 aviation plug
Output	4-20mA
Communication	Modbus RS485
Optional Output	OCT (pulse output) / one relay alarm
Power Supply	10-24V VDC
Electric Power	< 3W
Circuit Protection	Power reverse protection, power surge protection
	Each output short-circuit protection, each output surge protection
Protection Level	IP65
Ambient Temperature	-10 to 60°C (no freezing)
Relative Humidity	35 to 85% RH (non-condensing)
Vibration Resistance	10 to 55 Hz, double amplitude 1.5mm, 2 hours each for XYZ axes
Impact Resistance	100m/s2 16 ms pulse, X, Y, Z axis each 1000 times
Meter Material	aluminum alloy, industrial plastic
Cable Length	Standard 2 meters, (PT1000 standard 9 meters)

Flow Range

Pipe diameter	Upper limit flow value (L/min)
15	60 L/min
20	100 L/min
25	200 L/min
32	300 L/min
40	400 L/min
50	600 L/min
65	1000 L/min

Tip: The inner diameter of the smallest measurable pipe section is greater than or equal to 12mm.
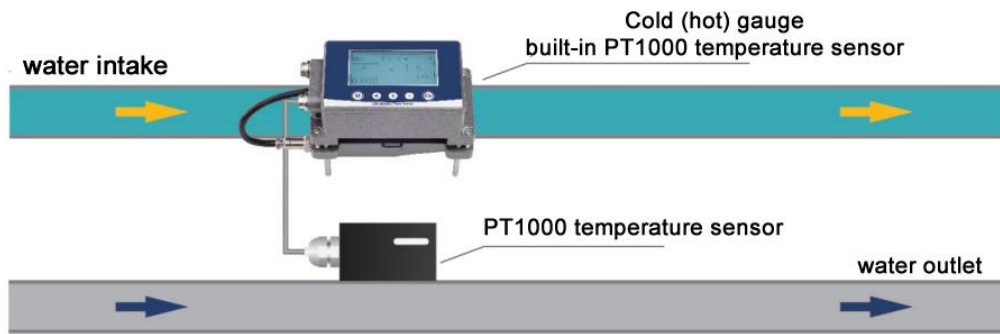
Dimensions

DN15-40

DN50-65

Ultrasonic Cold (Heat) Meter

Ordering Information

Code	Definition
	Pipe diameter: DN15-DN65mm
	Range: 0.03m/s-10m/s
	Accuracy: ±2% (1% after calibration)
	Measurement medium: water/other (single without solid particles and impurities)
	Power supply: 10~24VDC/1A
	Sensor operating temperature: 0-115℃;
	Other: 2 meters of cable as standard
	Heat meter: with a pair of PT1000 temperature sensors; one end of the temperature sensor is on the meter, and the other end of the cable is standard 9m
	Pipe Diameter
S	DN15-DN40
T	DN50-DN65
	Meter Type
1	Ultrasonic flow meter
2	Ultrasonic cold (heat) meter
	Sensor Type
C2	0-65°C
C2U	0-115°C
	Output (can choose two out of four)
A	4-20mA
M	Modbus
O	OCT (Frequency)
R	1 Relay
	PT1000 Temperature Sensor Cable Length
P	Temperature sensor cable length at the other end 9m
P(15)	Temperature sensor cable length at the other end 15m
P(25)	Temperature sensor cable length at the other end 25m

Example:
1. KUF100-S-1-C2-AM
ultrasonic flowmeter, range DN15-DN40, temp. range 0-65℃, with 4-20mA and RS485 output, standard cable length 2m.
2. KUF100-S-2-C2U-AM-P
ultrasonic cold (hot) meter, range DN15-DN40, temp. range 0-115℃, with 4-20mA and RS485 output, standard cable length 2m; with a pair of PT1000 temperature sensors; one end of the temperature sensor is on the meter, and the other end of the cable is standard 9m