

## **EU-109H Portable Handheld Ultrasonic Flowmeter**



The EU-109H ultrasonic flow meter works with Ultrasonic Technology and Measures by Principle of time difference. There is a pair of ultrasonic vibrator and receiver in the exterior of pipe emitting in two directions and both face to face. The light vibrator will emit ultrasonic signals down stream and reversed stream. Measuring the time difference of the two directions transmission, you will get the flow rate of the fluid; then input the diameter of pipe, you will get the flow.

There is no moving part in the ultrasonic instrument, which is a kind of movable and reliable static instrument. With its accuracy up to 0.8% and comparatively large dynamic measurement range as well as a 25-year-stability, it becomes a proud of the flow measurement instrument outside of pipe in current market.

The EU-109H Ultrasonic Flow Meter is a portable instrument which could be taken to the field and could measure the fluid flow moveably, and now widely applied in some non-contact measurement with corrosive, clean or ordinary fluid fields of the petrochemical, food and water industry.

The high performance and low price characters of handheld ultrasonic flow meter produced by my company, make it possible to be applied widely in the water flow measurement in central air conditioner field.

## EU-109H Standard Accessory



Flowmeter



Signal Cable



Protect Box



Sensor

## Optional Accessory



Rack With Sensor ( S1 )  
PipeSize: DN15~DN100  
Liquid Temperature:  $\leq 110^{\circ}\text{C}$



Rack With Sensor ( M1 )  
Pipe Size: DN50~DN1000  
Liquid Temperature:  $\leq 110^{\circ}\text{C}$



Standard Sensor ( L1 )  
Pipe Size: DN300~DN6000  
Liquid Temperature:  $\leq 110^{\circ}\text{C}$



Standard Sensor ( S1 )  
Pipe Size: DN15~DN100  
Liquid Temperature:  $\leq 110^{\circ}\text{C}$



Standard Sensor ( M1 )  
Pipe Size: DN50~DN1000  
Liquid Temperature:  $\leq 110^{\circ}\text{C}$

**Remark:** If need optional Accessory, total price will be add for your choice.

## Technology Data

Linearity	0.42%
Repeatability	0.17%
Accuracy	Normally $\pm 0.8\%$ of reading at rates $> 0.2\text{mps}$
Response Time	0-999 seconds, user-configurable
Velocity	$\pm 34.5\text{m/s}$
Pipe Size	1/2" ~ 240" (DN15mm - DN6,000mm)*
Pipe Material	All metals, most plastics, lined pipes
Units	English (U.S.) or metric
Totalizer	Three 7-digit totalizers for totalizing net, positive, and negative flows respectively
Liquid Types	Virtually all liquids and liquids with minor solids ( $< 10,000\text{ppm}$ ). Full pipes
Display	4 x 16 letters
Digital Interface	OCT digital output, can be configured as frequency or pulse output RS-232C, baud-rate: from 75 to 57600. serial communication port with simplified flowmeter protocol. Users protocols can be made on enquiry.
Transducers	Model M1 as the standard; other 3 models optional
Transducer Cable	Standard 2m x 10m. optional 2 × 500 meters
Power Supply	3 AAA Ni-H built-in batteries. When fully recharged it lasts over 10 hours. 100V-240VAC for the charger
Data Logger	Built-in data logger can store over 2000 lines of data
Housing Material	Aluminum alloy protective case. Suitable for normal and harsh environment
Case Size	100mm x 66mm x 20mm
Handset Weight	1.2 lbs (514 g) with batteries