

## UT-9600 Simple and easy type Heat Ultrasonic Flowmeter-(BTU)

### GENERAL

#### Simple and easy type Actsonic UT-9600 Series

Easy Type Heat ultrasonic flowmeter is a state-of-the-art universal transit-time flowmeter incorporating the latest developments in digital processing, with clamp-on transducers for non-invasive liquid measurement. While principally designed for clean liquid applications the instrument is tolerant of liquids with a small quantity of air bubbles or suspended solids common in most

### FEATURES & APPLICATIONS

- Daily, monthly and early totalized flow
- Calorimeter calculation function (BTU)
- Batch control function
- Flow velocity +/-0.01~+/-32 m/s
- High accuracy of +/-0.5% of reading
- Clamp-on sensors are simple to install, leading to lower installation and labor costs
- Clamp-on sensors mean no pipe cutting or process interruption and no plant shut-down
- Hygienic measurement, no risk of contamination, suitable for ultra clean liquids
- Measurement is independent of fluid conductivity meaning a wider applicability than magnetic meters
- Liquids Measured
  - Water, sea water and other clean liquids with a content of suspended solids less than 10000ppm (mg / l) and without a high content of air bubbles.
  - -20°C ~ +80°C, without ice in pipes at low temperature

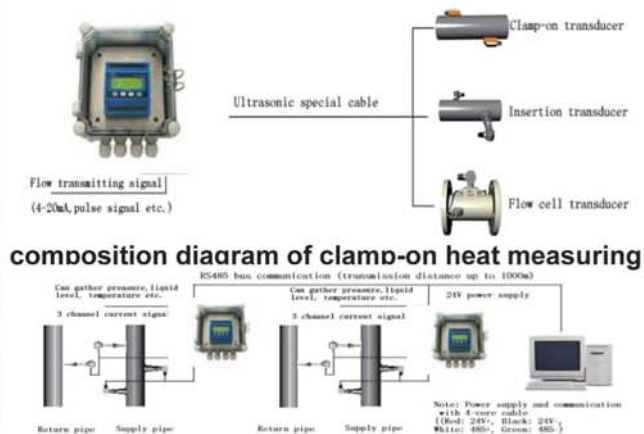


Actsonic UT-9600 Series

### SPECIFICATION

<b>Measuring Principle</b>	Transit time difference	
<b>Pipe Size</b>	TS-2 Type : 15 mm ~ 100 mm	
	TM-1 Type : 50 mm ~ 1000 mm	
	TL-1 Type : 300 mm ~ 6000 mm	
<b>Pipe Material</b>	Cast Iron, Stainless Steel, Ductile Iron PP, PVC, Aluminum, Asbestos Fiberglass... etc.	
	<b>Liner Material</b>	Tar Epoxy, Rubber, Mortar, Polypropylene, Polystyrene, Polystyrene, Polyester, Ebonite, Polyethylene, Teflon... etc.
<b>Display</b>	2 Line (20*2) 1st/2nd alphanumeric backlit LCD ,Velocity, Date, Time, Signal condition.	
	Flowrate	5 digit with decimal point
	Totalizer	8 digit, Forward, Reverse & Net values.
	Heat Unit(Btu)	Kwh,GJ;[Energy=Volume*(T1-T2)*K factor(Ti)]
	Time Unit	Second, Minute, Hour, Day.
<b>Flow Velocity</b>	0.01 ~ +/- 32 m/s	
<b>Measurement Accuracy</b>	+/- 0.5% of reading (online calibration)	
<b>Repeatability</b>	+/- 0.1%~+ 0.5% at +/- 0 ~ +/- 32 m/s Linearity +/- 0.5%	
<b>Basicaccumlatedcycle</b>	500ms	

<b>Resolution</b>	0.0001 m/s
<b>Response Time</b>	Less than 1 second
<b>Keypad</b>	4 Key with tactile action
<b>Output</b>	isolation 4-20mA output (two-wire system)
<b>Pulse Output</b>	2xOCT Channel
<b>Serial interface</b>	<b>RS485 MODBUS</b>
<b>Power Supply</b>	3~24VDC,AC90~240V
<b>Certification</b>	<b>IP65(NEMA 4X)</b>
<b>Mounting</b>	<b>Wall mounting</b>
<b>Input</b> (Calorimeter calculation btu function)	0/4-20 mA, Temp(PT100),Pressure



## SENSOR SPECIFICATION

Fluid Temperature: -20~110°C



**S1** Type Pipe Size : 15 ~ 100 Mm (1/2" ~ 4")  
Dimensions : 200 X 25 X 25mm



**M1** Type PIPE SIZE : 50 ~ 1000 mm (2" ~ 40")  
Dimensions : 60 x 45 x 45mm

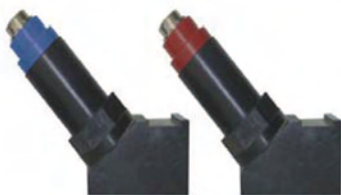


**L1** Type PIPE SIZE : 300 ~ 6000 mm (12" ~ 240")  
Dimensions : 80 x 70 x 56mm

Fluid Temperature: -20~160°C



**S1H** Type Pipe Size : 15 ~ 100 Mm (1/2" ~ 4")  
Dimensions : 90 X 85 X 24mm

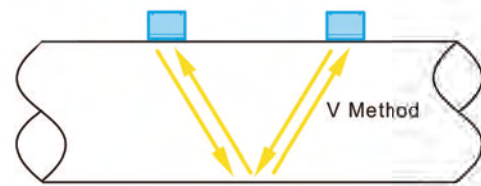
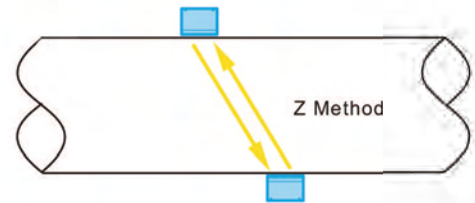


**M1H** Type PIPE SIZE : 50 ~ 700 mm (2" ~ 28")  
Dimensions : 90 x 82 x 29mm

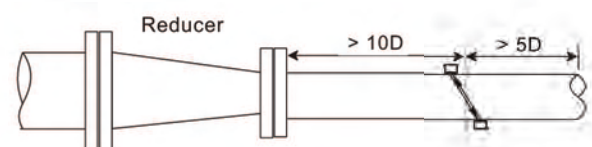
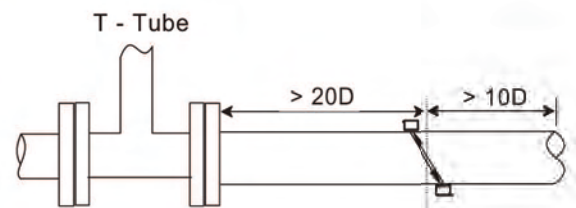
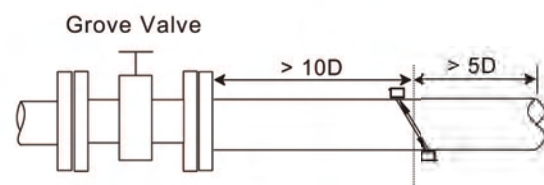
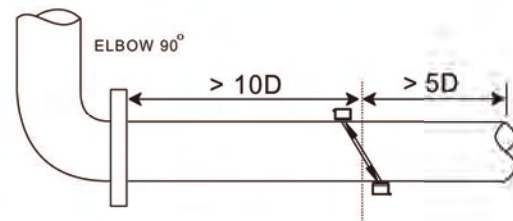


## UT-9600 Series

### INSTALLATION



### CONDITIONS ON STRAIGHT PIPE



# Heat / Ultra Sonic Flowmeter