ACTSONIC

Portable Ultra sonic Flowmeter

GENERAL

Portable Actsonic UT-9200 Series

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 industrial applications

Actsonic UT-9200 Series

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 clan liquids
- Measurement is independent of fluid conductivity meaning a wider applicability than magnetic meters

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SPECIFICATION

Measuring Principle	Transit time difference
Pipe Size	S1 Type : 15 mm ~ 100 mm
	M1 Type : 50 mm ~ 1000 mm
	L1 Type : 300 mm ~ 6000 mm
Pipe Material	Cast Iron, Stainless Steel, Ductile Iron PP, PVC, Aluminum, Asbestos Fiberglass… etc.
Liner Material	Tar Epoxy, Rubber, Mortar, Polypropylene, Polystryal, Polystyrene, Polyester, Ebonite, Polyethylene, Teflon… etc.
Display	4 Line LCD With illumination alphanumeric backlit LCD ,Velocity, Date, Time, Signal condition.
Flowrate	5 digit with decimal point
Totalizer	8 digit, Forward, Reverse & Net values.
	Flow Unit: M3, Liter, US Gallon, Imperial Gallon, Million Gallon, Cubic Feet, US Barrels, Imperial Barrels, Oil Barrel.
Time Unit	Second,Minute, Hour, Day.
	Velocity,Date,Time,Singal condition
Flow Velocity	0.01 ~ +/- 32 m/s
Measurement Accuracy	+/- 0.5% of reading (online calibration)
Repeatability	+/- 0.1%~+ 0.2% at +/- 0 ~ +/- 32 m/s Llinearity +/- 0.5%
Basicaccumlatedcycle	500ms

Resolution	0.0001 m/s
Response Time	Less than 1 second
Keypad	18 Key with tactile action
Flow Velocity	0.01 ~ +/- 32 m/s
Ambient Humidity	90% RH or Less
Alarm	High/Low with buzzer
Communication	RS-232
Data Logger	64 data include flowrate, totalizer, time
Data Storage	Operation parameters and totalization data are stored by EEPROM for more than 10 years
Power Requirement	
Charger	90 & 260 VAC 50/60HZ , 8-12 hr charging
Power consumption	Less than 2 W
Portable type	110 & 220 VAC +10%
Enclosure	
convert, IP65; temp	-20 ~ +60 ℃; Humidity:90%RH max
sensor, IP68 ; temp	-20 ~ +120 ℃; Humidity:100%RH max
Proable Ultrasonic	**Flowemeter Specification**
Oper time	>10Hours
Built-in Battery	Ni-MH Battrey
Enclosure:IP65 Temp	0 ~ +60 ℃
Weight	600g

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SENSOR SPECIFICATION

Fluid Temperature:-20~=110℃

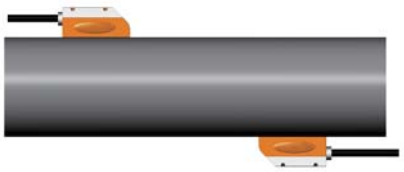
S1 Type Pipe Size : 15 ~ 100 Mm(1/2" ~ 4")
Dimensions : 200 X 25 X 25mm

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

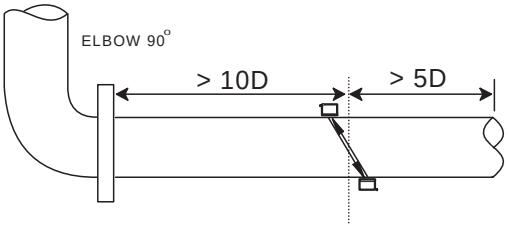
INSTALLATION

Z Method

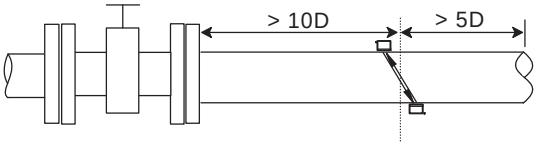


V Method

CONDITIONS ON STRAIGHT PIPE



Grove Valve



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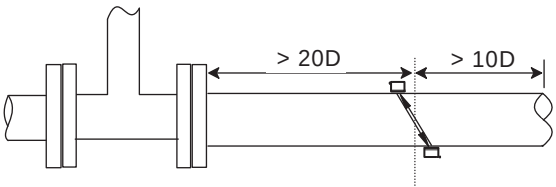

Reducer