

## GENERAL

**ALIASONIC** The AUF750HM Series is a fixed mounted, transit-time ultrasonic Flowmeter. It features clamp-on style transducers for non-invasive measurement of clean homogeneous liquid processes.

This user friendly microprocessor based, field programmable flowmeter ensures that the flow of existing processes can be performed without interrupting the flow and has very low installation costs.

## FEATURES

- ❑ 4 line LCD display with flowrate, totalizer & signal condition
- ❑ Stores up 64 Day / Month / Year Totalizer daily value
- ❑ Batch control function
- ❑ Wide range velocities of 0.01~+/-32 m/s
- ❑ Transducers for pipe size from 15-6000 mm
- ❑ High accuracy of +/-0.5% of reading
- ❑ Built-in magnet in transducers, no need for steady tool on metal pipe
- ❑ SD card (16 G) Data-Logger (Flowrate, totalizer, time, date included)
- ❑ Response time less than 1 second

## STANDARD SPECIFICATION

- |                       |  |                       |  |
|-----------------------|--|-----------------------|--|
| ● Measuring Principle | : Transit time difference  | ● Keypad              | : 16 Key with tactile action   |
| ● Pipe Size           | : S Type : 15-100 mm (1/2"-4")<br>: M Type : 50-1000 mm (2"-40")<br>: L Type : 300-6000 mm (12"-240")<br>: HS Type : 15-100 mm (1/2"-4")<br>: HM Type : 50-1000 mm (2"-40")  | ● Response Time       | : Less than 1 second   |
| ● Pipe Material       | : Cast Iron, Stainless Steel, Ductile Iron<br>Copper, PVC, Aluminum, Fiberglass etc.   | ● Flow Velocity       | : 0.01~+/-32 m/s   |
| ● Liner Material      | : Tar Epoxy, Rubber, Mortar, Polypropylene,<br>Polystyrol, Polyethylene, Teflon etc.   | ● Resolution          | : 0.0001 m/s   |
| ● Display             | : 4 Line LCD with illumination<br>Flowrate : 5 Digit with decimal point<br>Totalizer : 8 Digit, Forward, Reverse & Net values.<br>Engineer Unit : m <sup>3</sup> , Liter, US Gallon, Imperial Gallon,<br>Million Gallon, Cubic Feet, US Barrels,<br>Imperial Barrels, Oil Barrel<br>Time Unit : Second, Minute, Hour, Day<br>Other : Velocity, Date, Time, Signal condition. | ● Ambient Temperature | : -20~50 °C  |
| ● Accuracy            | : +/-1%~+/-2% of reading (0.5-30 m/s)<br>: +/-0.5% of reading (Online calibration)   | ● Mounting            | : Wall mounting  |
| ● Repeatability       | : +/-0.2% of reading   | ● Max. Cable Length   | : 300 m  |
| ● Temperature Input   | : PT1000 * 2 points for BTU calculation<br>Function : Δ T, Measurements for Thermal Energy   | ● Power Consumption   | : Less than 2W   |
|                       |  | ● Power Supply        | : 85-265 VAC 50/60 Hz or 8-36 VDC  |
|                       |  | ● Data Storage        | : Operation parameters and totalizer<br>figures are stored by EEPROM for more<br>than 10 years |
|                       |  | ● Output              | : 4-20 mA or 0-20 mA or 20-4-20 mA   |
|                       |  | ● Pulse Output        | : 1-9999 Hz  |
|                       |  | ● Data Logger         | : SD card (16 G) Data-Logger<br>(Flowrate, totalizer, time, date included)                     |
|                       |  | ● Alarm               | : High / Low with buzzer<br>: 5 VDC 1A / 125 VAC 0.5A  |
|                       |  | ● Communication       | : RS485 (MODBUS)   |
|                       |  | ● Dimensions          | : 235 * 205 * 95 mm  |
|                       |  | ● Weight              | : 1.5 kg   |
|                       |  | ● Protection Class    |  |
|                       |  | Converter             | : IP65   |
|                       |  | Sensor                | : IP68 (Submersible)   |



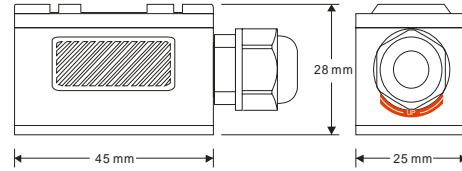
**SENSOR SPECIFICATION**

● Fluid Temperature : -40~110 °C

● S Type

Pipe Size : 15-100 mm (1/2"-4")

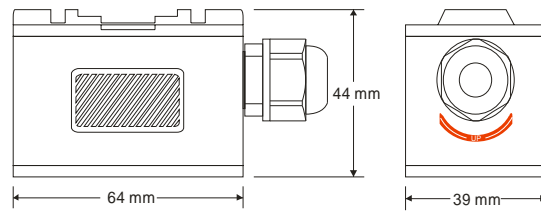
Dimensions : 45 \* 25 \* 28 mm



● M Type

Pipe Size : 50-1000 mm (2"-40")

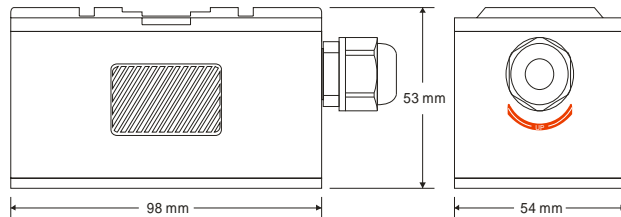
Dimensions : 64 \* 39 \* 44 mm



● L Type

Pipe Size : 300-6000 mm (12"-240")

Dimensions : 98 \* 54 \* 53 mm

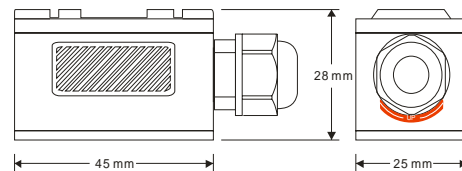


● Fluid Temperature : -40~160 °C

● HS Type

Pipe Size : 15-100 mm (1/2"-4")

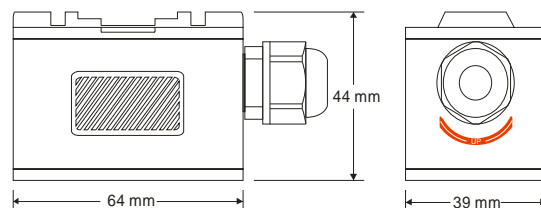
Dimensions : 45 \* 25 \* 28 mm



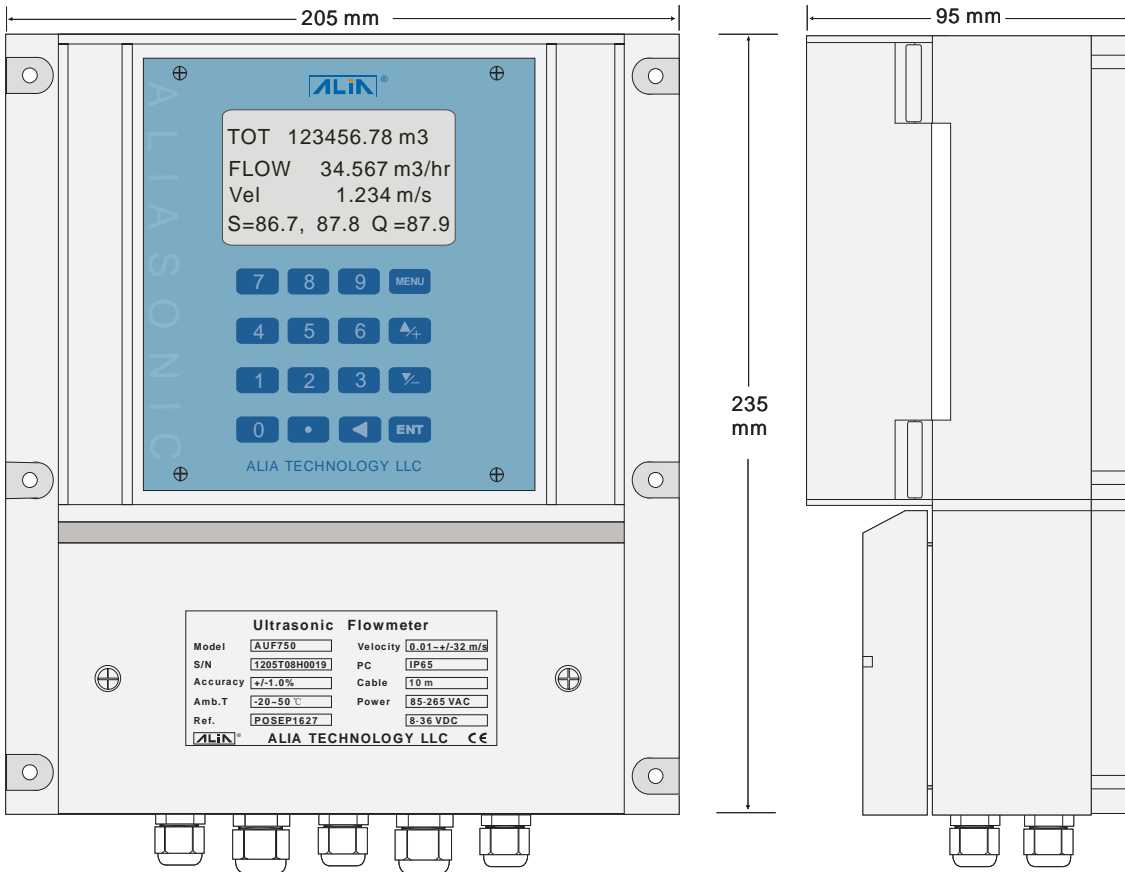
● HM Type

Pipe Size : 50-1000 mm (2"-40")

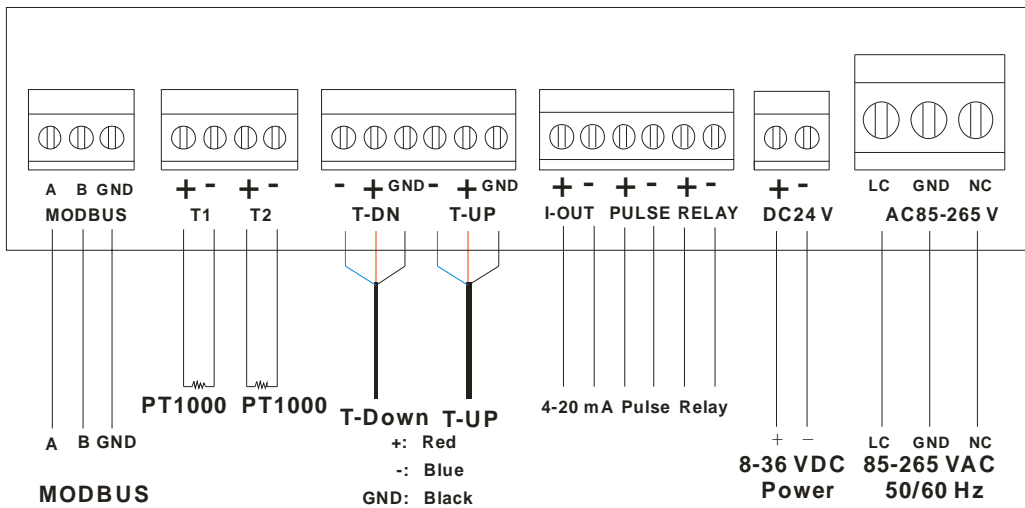
Dimensions : 64 \* 39 \* 44 mm



**➤ DIMENSIONS FOR ULTRASONIC FLOWMETER**



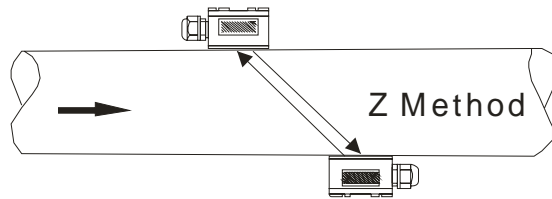
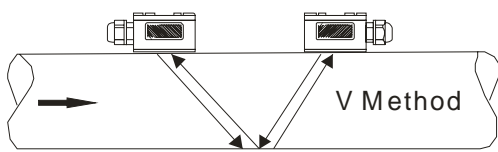
**➤ WIRING DIAGRAM**



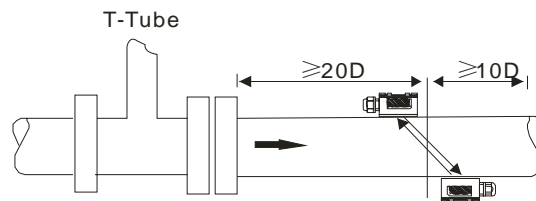
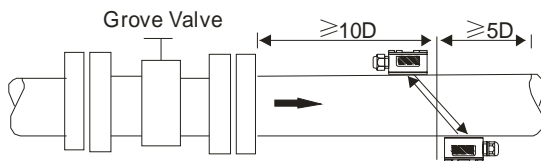
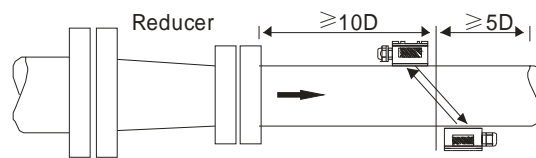
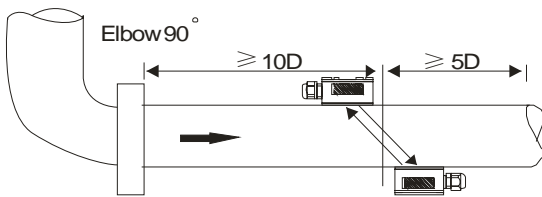
**➤ ACCESSORIES**



**INSTALLATION**



**CONDITIONS ON STRAIGHT PIPE**



**MODEL SELECTION GUIDE**

AUF750HM Series				
Example: AUF750HM-S-010-NN (AUF750HM Converter + Small Sensor -15~100 mm + Cable 10 m + 85-265 VAC or 8-36 VDC Power)				
AUF750HM-	X	-XXX	-XX	Description
Basic Selection	AUF750HM-			Basic Model, Include * AUF750HM Converter * Mounting Belt * Acoustic Gel * Fixed Glue
Detector	S			Small Sensors, 15-100 mm (1/2"-4"), -40~110 °C
	M			Middle Sensors, 50-1000 mm (2"-40"), -40~110 °C
	L			Large Sensors, 300-6000 mm (12"-240"), -40~110 °C
	HS			High-Temperature Small Sensors, 15-100 mm (1/2"-4"), -40~160 °C
	HM			High-Temperature Middle Sensors, 50-1000 mm (2"-40"), -40~160 °C
Signal Cable Length		-NNN		3-300 m
Power Supply			-NN	85-265 VAC, 50/60 Hz or 8-36 VDC