

## GENERAL

**ALIASONIC** The AUF610 Series is a portable transit-time ultrasonic flowmeter with clamp-on transducers for non-invasive liquid measurement. Based on microprocessor and programmable flow measurement techniques the process flow can be accurately measured without interrupting the flow and with low installation costs.

## FEATURES

- ❑ 4 line LCD to display flowrate, totalizer signal condition etc.
- ❑ The flowmeter is designed in high accuracy +/-1.0%
- ❑ Small sized (206 \* 100 \* 35 mm) light-weight (600 g)
- ❑ Wide range, Velocities (0.01~+/-32 m/s)
- ❑ Ni-MH Battery lasts for over 10 hours continuous operation
- ❑ Maximum temperature 160 °C
- ❑ Transducers for pipes size from 15-6000 mm (1/2"-240")
- ❑ Built-in magnet in transducers, no need for steady tool on metal pipe
- ❑ Data logger which records flowrate, date, total flow, signal condition etc.
- ❑ Response time less than 1 second

## STANDARD SPECIFICATION

- |                       |  |                       |  |
|-----------------------|--|-----------------------|--|
| ● Measuring Principle | : Transit time difference  | ● Keypad              | : 18 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, Asbestos<br>Fiberglass etc.   | ● Flow Velocity       | : 0.01~+/-32 m/s   |
| ● Liner Material      | : Tar Epoxy, Rubber, Mortar, Polypropylene,<br>Polystyrol, Polystyrene, Polyester, Ebonite,<br>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 | : -40~60 °C  |
| ● Accuracy            | : +/-1%~+/-2% value of reading (0.5-30 m/s)<br>: +/-0.5% value of reading (Online calibration)   | ● Ambient Humidity    | : 90% RH or Less   |
| ● Repeatability       | : +/-0.2% value of reading   | ● Built-in Battery    | : Ni-MH Battery  |
|                       |  | ● Operation Time      | : >10 Hours  |
|                       |  | ● Charger             | : 90-260 VAC 50/60 Hz, 8-12 h charging   |
|                       |  | ● Data Storage        | : Operation parameters and totalizer<br>figures are stored by EEPROM for more<br>than 10 years |
|                       |  | ● Data Logger         | : Limitless overwriting in 64 columns<br>(Flowrate, totalizer, time, date included)            |
|                       |  | ● Alarm               | : High / Low with buzzer   |
|                       |  | ● Power Consumption   | : Less than 2W   |
|                       |  | ● Dimensions          | : 206 * 100 * 35 mm  |
|                       |  | ● Weight              | : 0.6 kg   |
|                       |  | ● Protection Class    | : IP65<br>Sensor : IP65 (Standard)<br>: IP68 (Submersible)                                     |



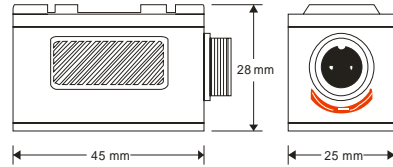
**SENSOR SPECIFICATION**

● Fluid Temperature : -40~110 °C

● S Type

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

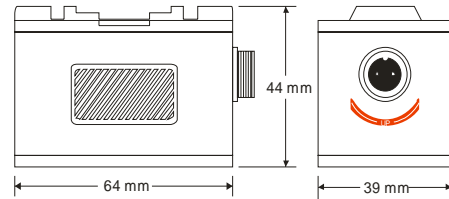
Dimensions : 45 \* 25 \* 28 mm



● M Type

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

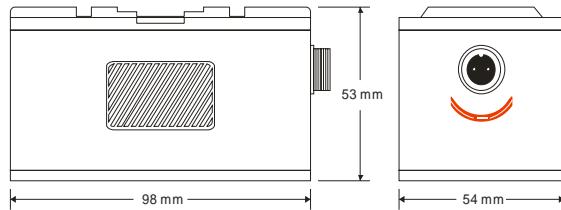
Dimensions : 64 \* 39 \* 44 mm



● L Type

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

Dimensions : 98 \* 54 \* 53 mm

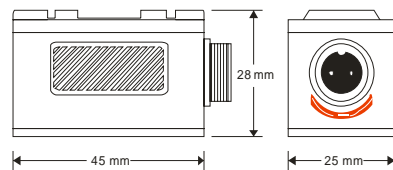


● Fluid Temperature : -40~160 °C

● HS Type

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

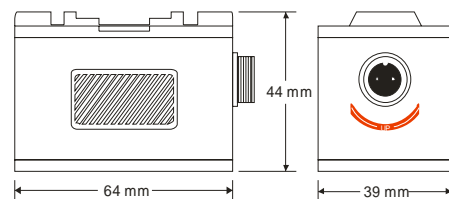
Dimensions : 45 \* 25 \* 28 mm



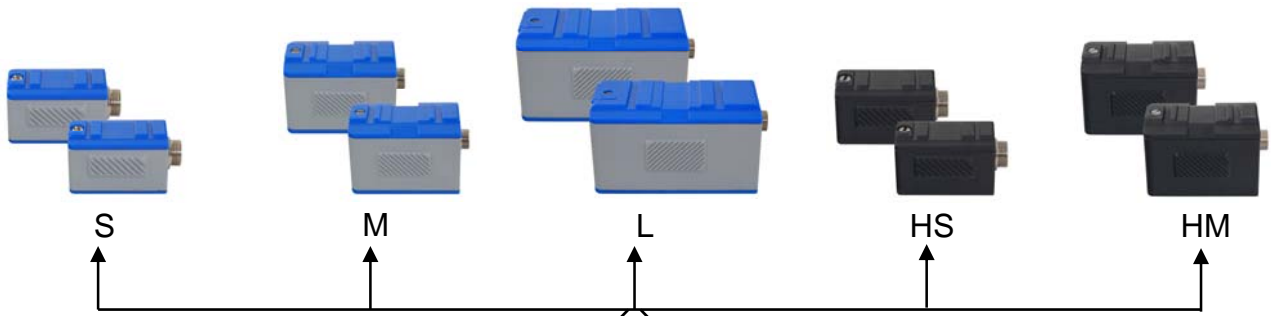
● HM Type

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

Dimensions : 64 \* 39 \* 44 mm



**COMBINATION FOR ULTRASONIC FLOWMETER**



Upstream Cable

Downstream Cable



Power Adapter



RS232 Communication Cable

**ACCESSORIES**



**Alarm Output Cable**



**Measuring Tape**



**Mounting Belt**



**Reinforced Plastic Carrying Case**  
Dimensions: 460 \* 360 \* 140 mm

**MODEL SELECTION GUIDE**

AUF610 Series				
Example 1: AUF610-M-B1-05		Example 2: AUF610-S, HM-B1-05,10		
AUF610-	XX	-XX	-X	Description
Basic Selection	AUF610-			Basic Model, Include * AUF610 Converter * Power Adapter (90-260 VAC, 50/60 Hz) * RS232 Communication Cable * Alarm Output Cable * Acoustic Gel * Measuring Tape * Reinforced Plastic Carrying Case
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
Mounting Belt		-B1		3 m, 1 Pair
		-B2		6 m, 1 Pair
Cable Length			-5	5 m, 2 Cables
			-10	10 m, 2 Cables