

## GENERAL

**ALIASONIC** AUF610series 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 \* 35mm) light-weight (600g)
- 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 to 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 mm ~ 100 mm (1/2" ~ 4")<br>: M Type : 50 mm ~ 1000 mm (2" ~ 40")<br>: L Type : 300 mm ~ 6000 mm (12" ~ 240")<br>: HS Type : 15 mm ~ 100 mm (1/2" ~ 4")<br>: HM Type : 50 mm ~ 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 : M3, 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 ~ 260Vac 50/60 Hz, 8-12 Hr 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)            |
|                       |                                                                                                                                                                                                                                                                                                                                                               | ● Output              | : Pulse (Open collector)                                                                       |
|                       |                                                                                                                                                                                                                                                                                                                                                               | ● Alarm               | : High/Low with buzzer                                                                         |
|                       |                                                                                                                                                                                                                                                                                                                                                               | ● Power Consumption   | : Less than 2W                                                                                 |
|                       |                                                                                                                                                                                                                                                                                                                                                               | ● Dimensions          | : 206 * 100 * 35 mm                                                                            |
|                       |                                                                                                                                                                                                                                                                                                                                                               | ● Weight              | : 0.6 Kg                                                                                       |
|                       |                                                                                                                                                                                                                                                                                                                                                               | ● Protection Class    | : Converter : IP65<br>Sensor : IP68 (Submersible)                                              |

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AUF610V1.2.0.r1.A4.en

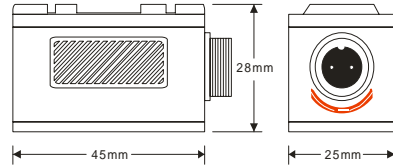
**SENSOR SPECIFICATION**

● Fluid Temperature : -40 ~ +110 °C

● S Type

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

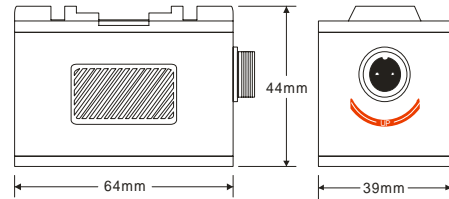
Dimensions : 45 \* 25 \* 28mm



● M Type

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

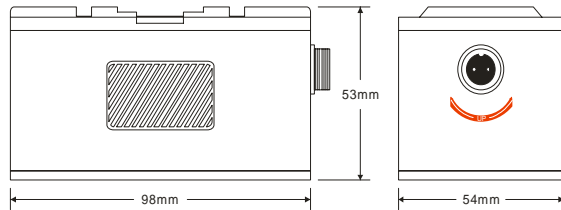
Dimensions : 64 \* 39 \* 44 mm



● L Type

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

Dimensions : 98 \* 54 \* 53 mm

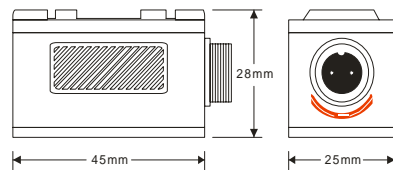


● Fluid Temperature : -40 ~ +160 °C

● HS Type

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

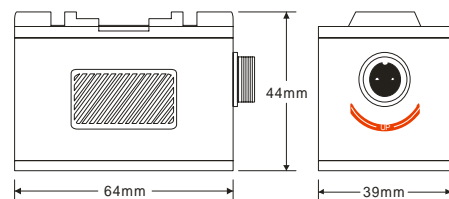
Dimensions : 45 \* 25 \* 28mm



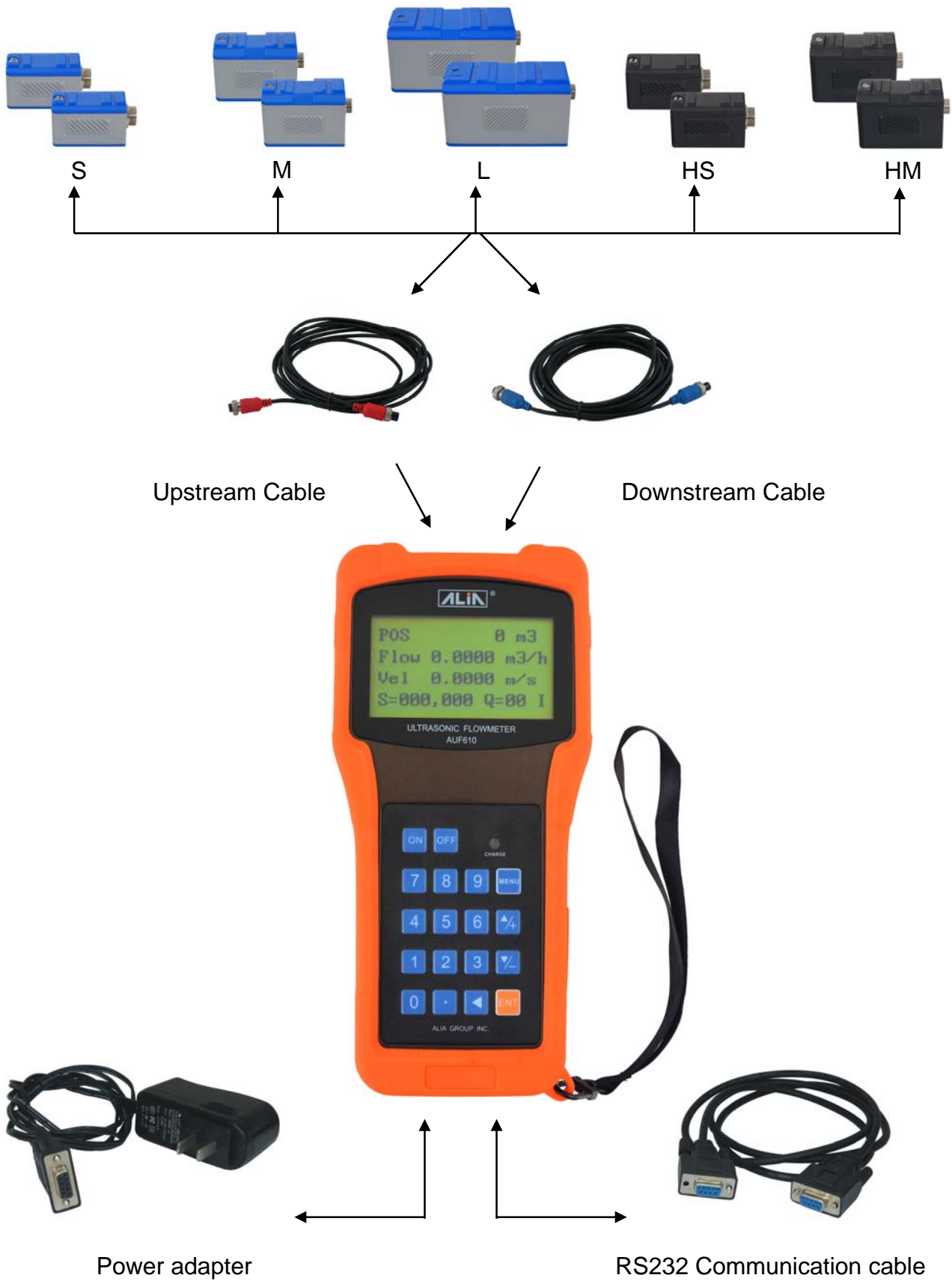
● HM Type

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

Dimensions : 64 \* 39 \* 44 mm



**COMBINATION FOR ULTRASONIC FLOWMETER**



**ACCESSORIES**



**Pulse Output Cable**



**Measuring Tape**



**Mounting Belt**



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

**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 (90-265 Vac, 50/60Hz) * RS232 Communication Cable * Pulse Output Cabel * Acoustic Gel * Measuring Tape * Reinforced Plastic Carrying Case
Detector	S			Small Sensors, 15~100mm (½"~4"), -40 ~ +110 °C
	M			Middle Sensors, 50~1000mm (2"~40"), -40 ~ +110 °C
	L			Large Sensors, 300~6000mm (12"~240"), -40 ~ +110 °C
	HS			High-Temperature Small Sensors, 15~100mm (½"~4"), -40 ~ +160 °C
	HM			High-Temperature Middle Sensors, 50~1000mm (2"~40"), -40 ~ +160 °C
Mounting Belt		- B1		3M, 1 Pair
		- B2		6M, 1 Pair
Cable Length			- 5	5M, 2 Cables
			- 10	10M, 2 Cables