

## GENERAL

**ALIASONIC** AUF610series is a portable transit-time ultrasonic flowmeter with clamp-on transducers for non-invasive liquid measurement. Based on microprocessor, field programmable flow measurement technique allows no interruption to the process flow and has 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(210 \* 90\* 30mm) light-weight(500g)
- Wide range, Velocities( 0.01 ~ +/- 32 m/s)
- Ni-MH Battery support at least 10 hours continuous operation
- Maximum temperature 160 °C
- Transducers for pipes size from 15 to 6000 mm((1/2" ~ 240")
- Transducers contains magnet devise, which can installed on metal pipe without mounting belt
- Data logger which records flowrate,date,total flow ,signal condition..Etc
- Response time less than 1 second



## 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 totalization<br>Data are stored by EEPROM for more<br>than 10 years |
|                       |   | ● Data Logger         | : 64 data include flowrate, totalizer,<br>time, date   |
|                       |   | ● Output              | : Pulse (Open collector)   |
|                       |   | ● Alarm               | : High/Low with buzzer   |
|                       |   | ● Power consumption   | : Less than 2W   |
|                       |   | ● Dimension           | : 210 * 90 * 30 mm   |
|                       |   | ● Weight              | : 0.5 Kg   |
|                       |   | ● Enclosure           |  |
|                       |   | Converter             | : IP65   |
|                       |   | Sensor                | : IP68(Submersible)  |

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AUF610V1.1.5en

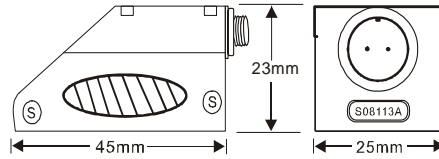
**SENSOR SPECIFICATION**

● Fluid Temperature : -40 ~ +110 °C

● S Type

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

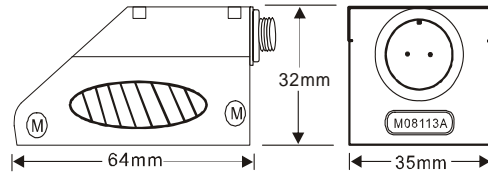
Dimensions : 45 \* 25 \* 23mm



● M Type

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

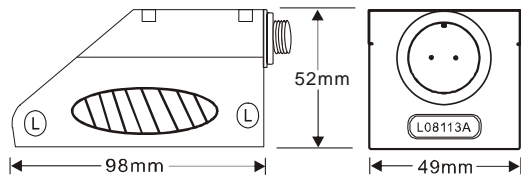
Dimensions : 64 \* 35 \* 32 mm



● L Type

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

Dimensions : 98 \* 49 \* 52 mm

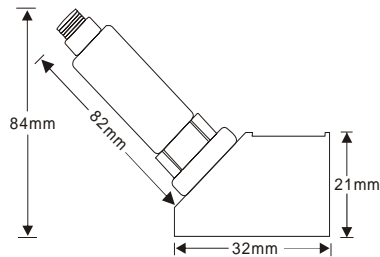


● Fluid Temperature : -40 ~ +160 °C

● HS Type

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

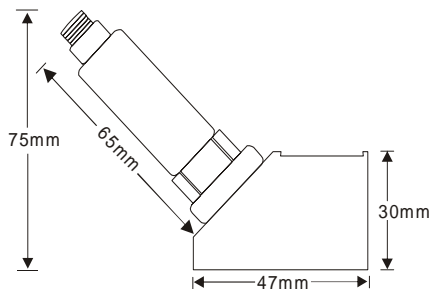
Dimensions : 84 \* 32 \* 21 mm



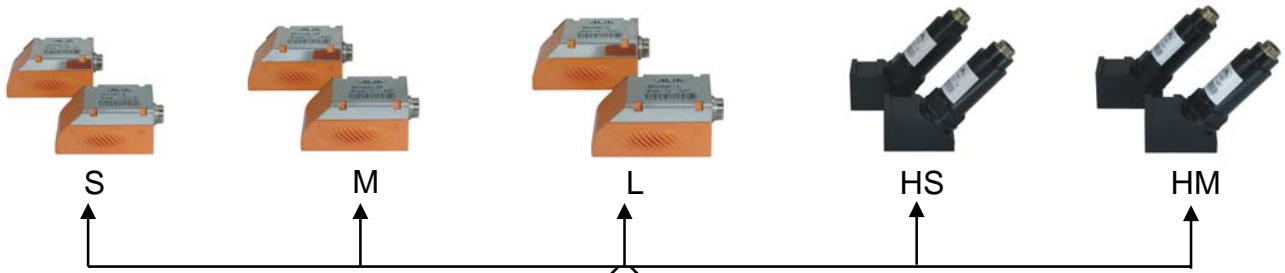
● HM Type

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

Dimensions : 75 \* 47 \* 30 mm



**COMBINATION FOR ULTRASONIC FLOWMETER**



Upstream Cable

Downstream Cable



Power adaptor



RS232 Communication cable

**OTHER ACCESSORY**



**Pulse output cable**



**Measuring Tape**



**Mounting belt**



**Reinforced plastic Carrying Case  
Dimension: 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 * 1 set * Power Adaptor (90-264 Vac, 50/60Hz) * 1 set * RS232 communication cable * 1 set *Silicone grease * 1 Jug *Reinforced plastic Carrying Case
Detector		S		Small Sensor, 15~100mm(½"~4"), -40 ~ +110 °C
		M		Middle Sensor, 50~1000mm(2"~40"), -40 ~ +110 °C
		L		Large Sensor, 300~6000mm(12"~240"), -40 ~ +110 °C
		HS		High-temperature Small Sensor, 15~100mm(½"~4"), -40 ~ +160 °C
		HM		High-temperature Middle Sensor, 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