

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 $\pm 1.0\%$
- ❑ 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")
: M Type : 50 mm ~ 1000 mm (2" ~ 40")
: L Type : 300 mm ~ 6000 mm (12" ~ 240")
: HS Type : 15 mm ~ 100 mm (1/2" ~ 4")
: HM Type : 50 mm ~ 1000 mm (2" ~ 40") | ● Response Time | : Less than 1 second |
| ● Pipe Material | : Cast Iron, Stainless Steel, Ductile Iron
Copper, PVC, Aluminum, Asbestos
Fiberglass... Etc | ● Flow Velocity | : 0.01 ~ ± 32 m/s |
| ● Liner Material | : Tar Epoxy, Rubber, Mortar, Polypropylene,
Polystyrol, Polystyrene, Polyester, Ebonite,
Polyethylene, Teflon... etc | ● Resolution | : 0.0001 m/s |
| ● Display | : 4 Line LCD with illumination
Flowrate : 5 digit with decimal point
Totalizer : 8 digit, Forward, Reverse & Net values
Engineer Unit : M3, Liter, US Gallon, Imperial Gallon,
Million Gallon, Cubic Feet, US Barrels,
Imperial Barrels, Oil Barrel
Time Unit : Second, Minute, Hour, Day
Other : Velocity, Date, Time, Signal condition | ● Ambient Temperature | : -40 ~ +60 °C |
| ● Accuracy | : $\pm 1\%$ ~ $\pm 2\%$ value of reading (0.5 ~ 30 m/s)
: $\pm 0.5\%$ value of reading (Online calibration) | ● Ambient Humidity | : 90% RH or Less |
| ● Repeatability | : $\pm 0.2\%$ 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
figures are stored by EEPROM for more
than 10 years |
| | | ● Data Logger | : Limitless overwriting in 64 columns
(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
Sensor : IP68 (Submersible) |



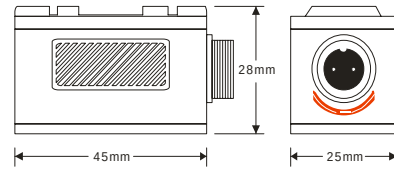
7 SENSOR SPECIFICATION

- Fluid Temperature : -40 ~ +110 °C

- S Type

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

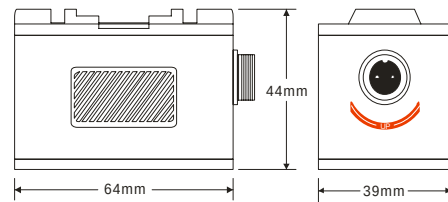
Dimensions : 45 * 25 * 28mm



- M Type

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

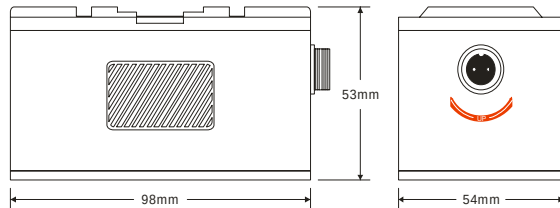
Dimensions : 64 * 39 * 44 mm



- L Type

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

Dimensions : 98 * 54 * 53 mm

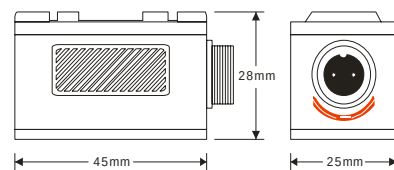


- Fluid Temperature : -40 ~ +160 °C

- HS Type

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

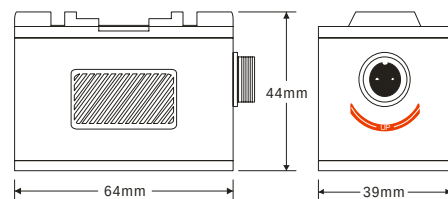
Dimensions : 45 * 25 * 28mm



- 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 (90-260 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	