



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 (8.3" * 3.5" * 1.2" /210 * 90* 30mm) light-weight (1.1 pound)
- ❑ Wide range, Velocities 0.03 ~ +/- 105ft/s (0.01 ~ +/- 32 m/s)
- ❑ Ni-MH Battery lasts for over 10 hours continuous operation
- ❑ Maximum temperature +320° F(160 °C)
- ❑ Transducers for pipes size from 1/2" ~ 240"(15 to 6000 mm)
- ❑ 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
- Pipe Size : S Type : 1/2" ~ 4"(15 mm ~ 100 mm)
: M Type : 2" ~ 40" (50 mm ~ 1000 mm)
: L Type : 12" ~ 240"(300 mm ~ 6000 mm)
: HS Type : 1/2" ~ 4" (15 mm ~ 100 mm)
: HM Type : 2" ~ 40"(50 mm ~ 1000 mm)
- Pipe Material : Cast Iron, Stainless Steel, Ductile Iron
Copper, PVC, Aluminum, Asbestos
Fiber glass... Etc
- Liner Material : Tar Epoxy, Rubber, Mortar, Polypropylene,
Polystyrol, Polystyrene, Polyester, Ebonite,
Polyethylene, Teflon... etc
- 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
- Accuracy : +/- 1% ~ +/- 2% value of reading (1.64 ~ 98 ft/s)
: +/-0.5% value of reading (Online calibration)
- Repeatability : +/-0.2% value of reading
- Keypad : 18 Key with tactile action
- Response Time : Less than 1 second
- Flow Velocity : 0.03 ~ +/- 105ft/s (0.01 ~ +/- 32 m/s)
- Resolution : 0.0003ft/s (0.0001 m/s)
- Ambient Temperature : -40~140 ° F(-40 ~ +60 ° C)
- Ambient Humidity : 90% RH or Less
- 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 : 8.3" * 3.5" * 1.2" (210 * 90 * 30 mm)
- Weight : 1.1 lbs
- Protection Class : Converter : IP65
Sensor : IP68 (Submersible)

ALIA GROUP INC.

113 Barksdale Professional Center, Newark, DE 19711, USA
TEL : + 1 - 302 - 213 - 0106 FAX : + 1 - 302 - 213 - 0107

URL : www.alia-inc.com
E-mail : alia@alia-inc.com
AUF610V1.1.8.LT.en



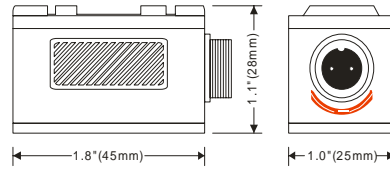
SENSOR SPECIFICATION

- Fluid Temperature : -40~+230 ° F(-40 ~ +110 ° C)

- S Type

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

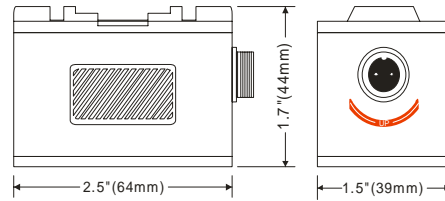
Dimensions : 1.8" * 1.0" * 1.1" (45 * 25 * 28mm)



- M Type

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

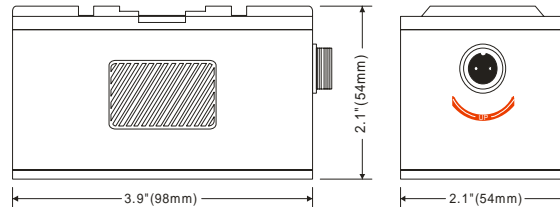
Dimensions : 2.5" * 1.5" * 1.7" (64 * 39 * 44 mm)



- L Type

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

Dimensions : 3.9" * 2.1" * 2.1" (98 * 54 * 54 mm)

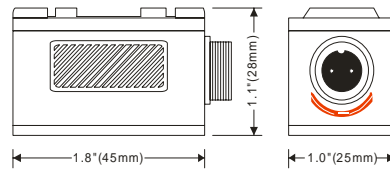


- Fluid Temperature : -40~+320 ° F(-40 ~ +160 ° C)

- HS Type

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

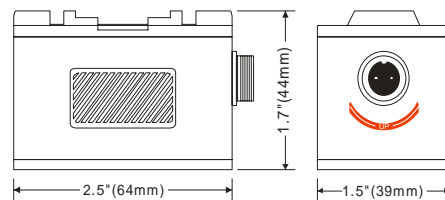
Dimensions : 1.8" * 1.0" * 1.1" (45 * 25 * 28mm)



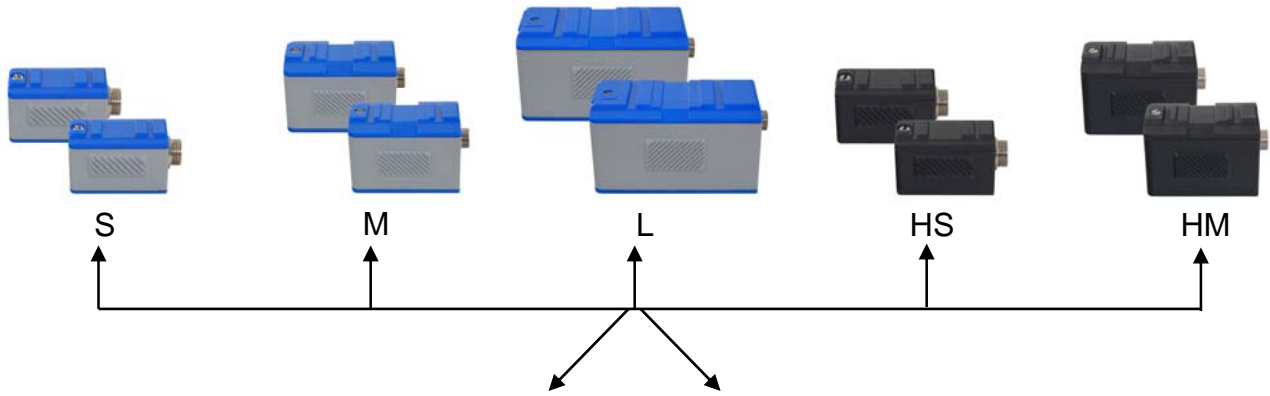
- HM Type

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

Dimensions : 2.5" * 1.5" * 1.7" (64 * 39 * 44 mm)



➤ COMBINATION FOR ULTRASONIC FLOWMETER



Upstream Cable

Downstream Cable



Power adapter



RS232 Communication cable

ACCESSORIES



Pulse output cable



Measuring tape



Mounting belt



Reinforced plastic carrying case
Dimension:18"*14"*5.5"(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 Adapter (90-265 Vac, 50/60Hz) * 1 set * RS232 Communication Cable * 1 set *Silicone Grease * 1 Jug *Reinforced Plastic Carrying Case |
| Detector | | S | | Small Sensor, ½"~4"(15~100mm), -40~+230 ° F(-40 ~ +110 °C) |
| | | M | | Middle Sensor, 2"~40"(50~1000mm), -40~+230 ° F(-40 ~ +110 °C) |
| | | L | | Large Sensor, 12"~240"(300~6000mm), -40~+230 ° F(-40 ~ +110 °C) |
| | | HS | | High-temperature Small Sensor, ½"~4"(15~100mm), -40~+320° F(-40 ~ +160 °C) |
| | | HM | | High-temperature Middle Sensor, 2"~40"(50~1000mm), -40~+320° F(-40 ~ +160 °C) |
| Mounting belt | | - B1 | | 3M(9.8ft), 1 Pair |
| | | - B2 | | 6M(19.7ft), 1 Pair |
| Cable Length | | - 5 | | 5M(16.4ft), 2 Cables |
| | | - 10 | | 10M(32.8ft), 2 Cables |