



ALIASONIC

Transit-Time Ultrasonic Flowmeter

Model AUF750 Series

GENERAL

ALIASONIC The Alia AUF750 is a fixed mounted, transit-time ultrasonic Flowmeter. It features clamp-on style transducers for non-invasive measurement of clean homogeneous liquids processes. This user friendly microprocessor based, field programmable flowmeter ensure that the flow of existing processes can be performed without interrupting the flow and has very low installation costs.

FEATURES

- ❑ 4 line LCD display with flowrate, totalizer & signal condition
- ❑ Stores up 64 Day/Month/Year Totalizer daily value
- ❑ Batch control function
- ❑ Wide range velocities of 0.03 ~ +/- 105ft/s (0.01 ~ +/- 32 m/s)
- ❑ Transducers for pipe size from 1/2" to 240" (15 to 6000 mm)
- ❑ High accuracy of +/-0.5% of reading
- ❑ Built-in magnet in transducers, no need for steady tool on metal pipe
- ❑ Data logger function, include date, totalizer, 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, Fiberglass... etc.
- Liner Material : Tar Epoxy, Rubber, Mortar, Polypropylene,
Polystyrol, 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% of reading (1.64 ~ 98 ft/s)
: +/- 0.5% of reading (Online calibration)
- Repeatability : +/-0.2% of reading
- Temperature Input : 4-20 mA * 2 points for BTU calculation
Function : ΔT , Measurements for thermal energy
- Keypad : 16 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 : -4~+122 ° F(-20 ~ +50 ° C)
- Mounting : Wall mounting
- Max. Cable Length : 5905" (150 M)
- Power Consumption : Less than 2W
- Power Supply : 90 ~ 260Vac 50/60 Hz or 8-36Vdc
- Data Storage : Operation parameters and totalizer
figures are stored by EEPROM for more
than 10 years
- Output : 4-20 mA or 0-20 mA
- Pulse Output : 1- 9999 Hz
- Data Logger : Limitless overwriting in 64 columns
(Flowrate, totalizer, time, date included)
- Alarm : High/Low with buzzer
- Communication : RS-232
- Dimensions : 9.3" * 8.0" * 3.7" (235 * 205 * 95 mm)
- Weight : 3.3 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
AUF750V1.1.8.LT.en

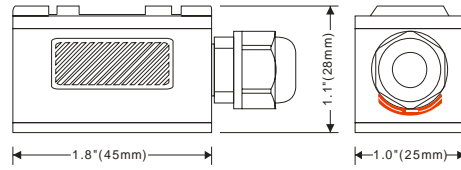


SENSOR SPECIFICATION

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

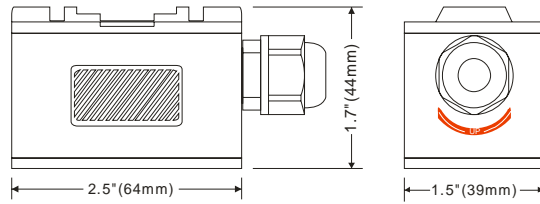
● S Type

Pipe Size : 1/2" ~ 4" (15 ~ 100 mm)
 Dimensions : 1.8" * 1.0" * 1.1" (45 * 25 * 28 mm)



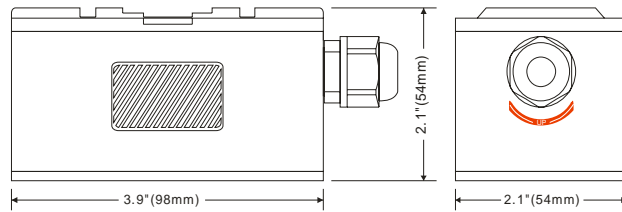
● M Type

Pipe Size : 2" ~ 40" (50 ~ 1000 mm)
 Dimensions : 2.5" * 1.5" * 1.7" (64 * 39 * 44 mm)



● L Type

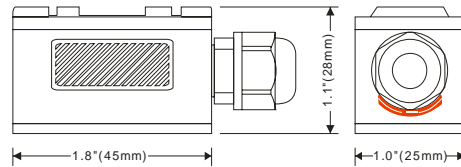
Pipe Size : 12" ~ 240" (300 ~ 6000 mm)
 Dimensions : 3.9" * 2.1" * 2.1" (98 * 54 * 54 mm)



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

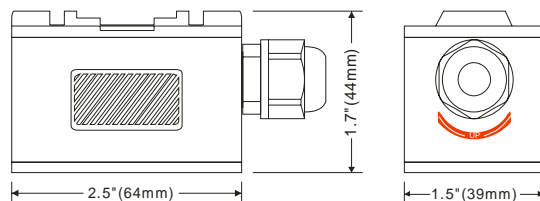
● HS Type

Pipe Size : 1/2" ~ 4" (15mm ~ 100mm)
 Dimensions : 1.8" * 1.0" * 1.1" (45 * 25 * 28 mm)

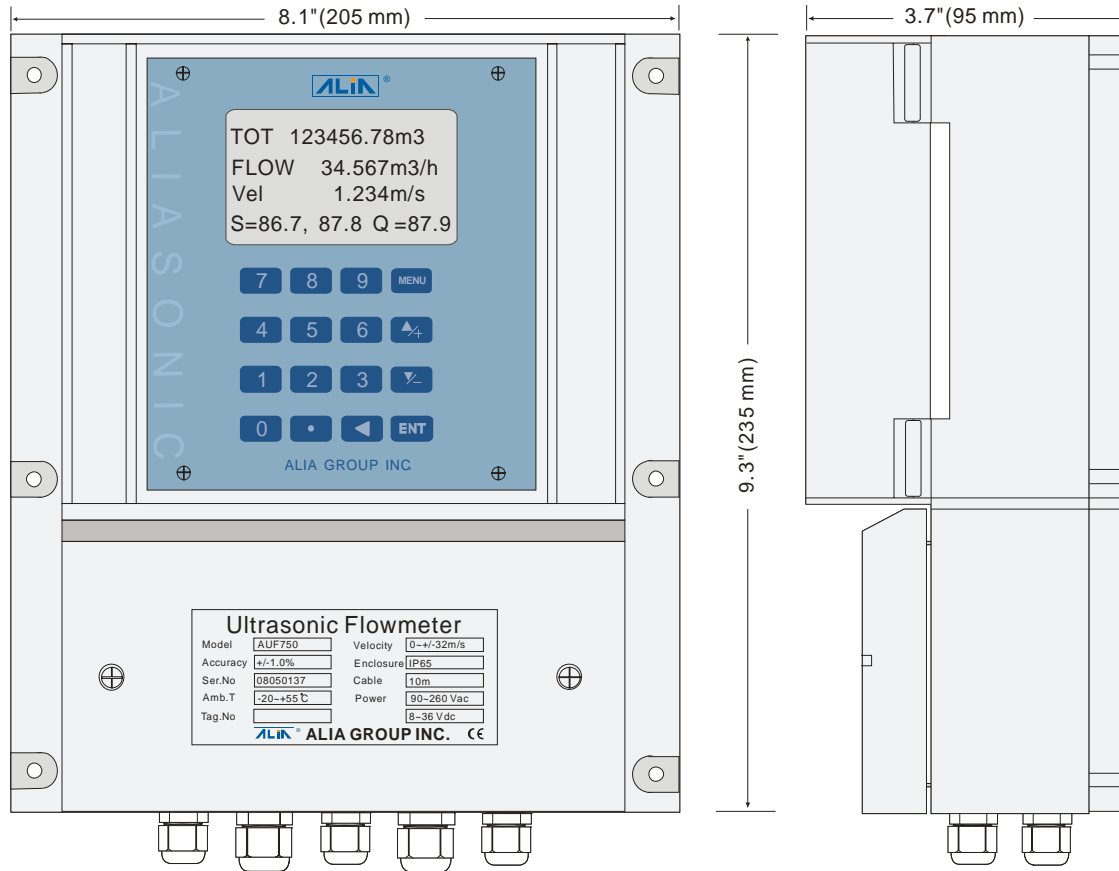


● HM Type

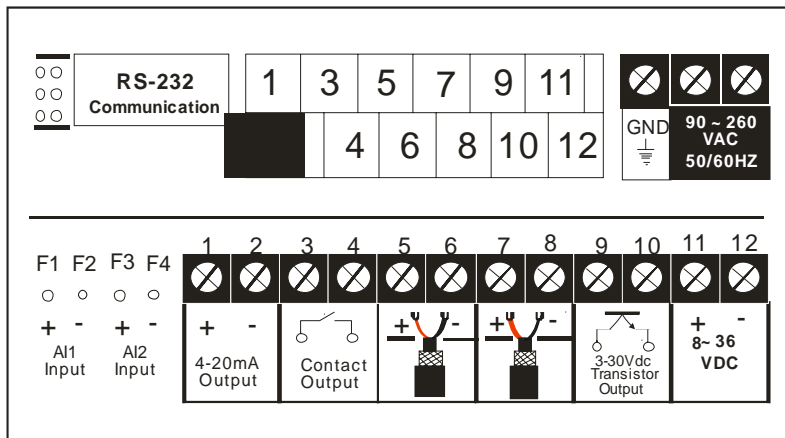
Pipe Size : 2" ~ 40" (50mm ~ 1000mm)
 Dimensions : 2.5" * 1.5" * 1.7" (64 * 39 * 44 mm)



➤ DIMENSIONS FOR ULTRASONIC FLOWMETER



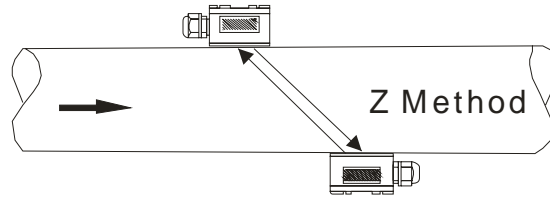
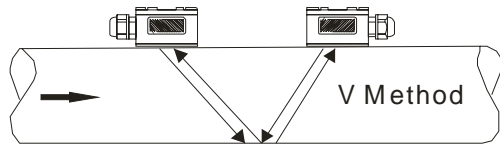
➤ WIRING DIAGRAM



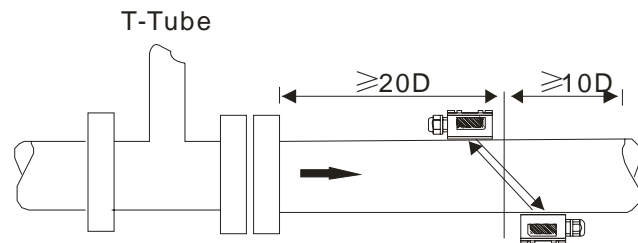
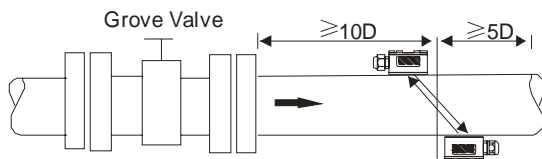
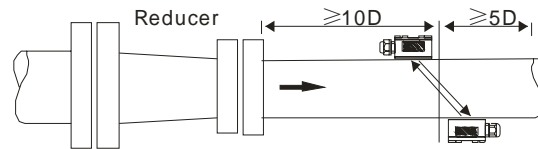
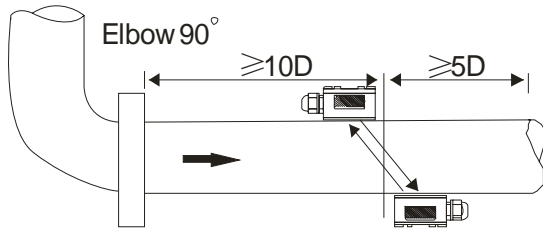
➤ OTHER ACCESSORY



INSTALLATION



CONDITIONS ON STRAIGHT PIPE



MODEL SELECTION GUIDE

AUF750 Series					
Example 1: AUF750-S-010-NN (AUF750 Converter + Small Sensor-1/2"-4" + Cable 394" + 90-260 Vac or 8-36VDC Power)					
AUF750-		X	-XXX	-XX	Description
Basic Selection	AUF750-				Basic Model, Include * AUF750 Converter * 1 set * Mounting Belt * 1 sets * Grease * 1 Box * Fixed Glue * 1 Box
		Detector	S		
			M		Middle sensor, 2" ~ 40"(50 ~ 1000 mm),-40~230 ° F(-40 ~ +110 °C)
			L		Large Sensor, 12" ~ 240"(300 ~ 6000 mm),-40~230 ° F(-40 ~ +110 °C)
			HS		High-temperature Small Sensor, 1/2"-4"(15~100mm), -40~+320 ° F(-40 ~ +160 °C)
			HM		High-temperature Middle Sensor, 2"-40"(50~1000mm),-40~+320° F(-40 ~ +160 °C)
Signal Cable Length			- NNN		3- 200M (9.8ft-656ft)
Power Supply				- NN	90-260VAC, 50/60 Hz or 8-36VDC