

GENERAL

ALIASONIC AUF750PE series is a fixed mounted, transit-time ultrasonic Flowmeter. It features clamp-on style transducers for non-invasive measurement of clean homogeneous liquid processes. This user friendly microprocessor based, field programmable flowmeter ensures 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 0.01 ~ +/- 32 m/s
- ❑ Transducers for pipe size from 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 | ● Keypad | : 16 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, Fiberglass... etc. | ● Flow Velocity | : 0.01 ~ +/- 32 m/s |
| ● Liner Material | : Tar Epoxy, Rubber, Mortar, Polypropylene,
Polystyrol, Polyethylene, Teflon... etc | ● Resolution | : 0.0001 m/s |
| ● Display | : 4 Line LCD with illumination | ● Ambient Temperature | : -20 ~ +50 °C |
| | Flowrate : 5 digit with decimal point | ● Mounting | : Wall mounting |
| | Totalizer : 8 digit, Forward, Reverse & Net values. | ● Max. Cable Length | : 300 M |
| | Engineer Unit : M3, Liter, US Gallon, Imperial Gallon,
Million Gallon, Cubic Feet, US Barrels,
Imperial Barrels, Oil Barrel | ● Power Consumption | : Less than 2W |
| | Time Unit : Second, Minute, Hour, Day | ● Power Supply | : 85~265Vac 50/60 Hz or 8-36Vdc |
| | Other : Velocity, Date, Time, Signal condition. | ● Data Storage | : Operation parameters and totalizer
figures are stored by EEPROM for more
than 10 years |
| ● Accuracy | : +/- 1% ~ +/- 2% of reading (0.5 ~ 30 m/s)
: +/- 0.5% of reading (Online calibration) | ● Output | : 4-20 mA or 0-20 mA or 20-4-20mA |
| ● Repeatability | : +/-0.2% of reading | ● Pulse Output | : 1-9999 Hz |
| ● Temperature Input | : PT1000 * 2 points for BTU calculation | ● Data Logger | : Limitless overwriting in 64 columns
(Flowrate, totalizer, time, date included) |
| | Function : ΔT , Measurements for Thermal Energy | ● Alarm | : High/Low with buzzer
: 5VDC 1A / 125VAC 0.5A |
| | | ● Communication | : RS-232 |
| | | ● Dimensions | : 235 * 205 * 95 mm |
| | | ● Weight | : 1.5 Kg |
| | | ● Protection Class | |
| | | Converter | : IP65 |
| | | Sensor | : IP68 (Submersible) |
| | | ● Option | : Ambient Temperature Inspection |



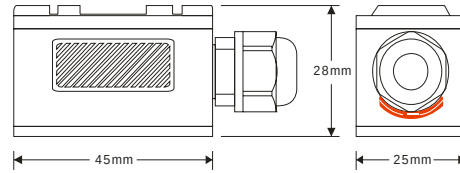
SENSOR SPECIFICATION

- Fluid Temperature : -40 ~ 110 °C

- S Type

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

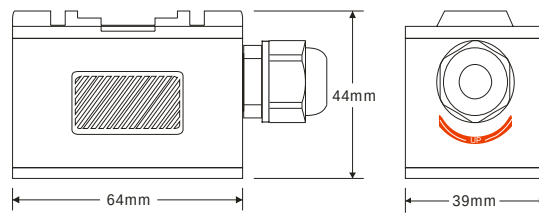
Dimensions : 45 * 25 * 28 mm



- M Type

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

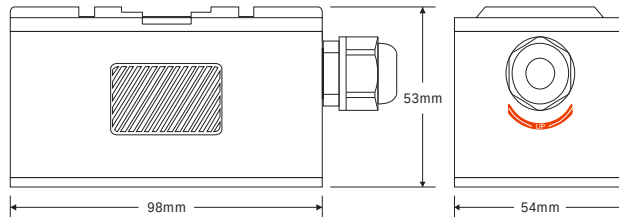
Dimensions : 64 * 39 * 44 mm



- L Type

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

Dimensions : 98 * 54 * 53 mm

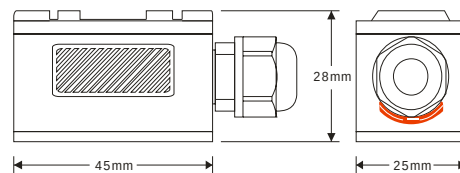


- Fluid Temperature : -40 ~ 160 °C

- HS Type

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

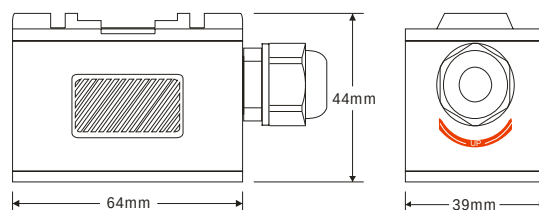
Dimensions : 45 * 25 * 28 mm



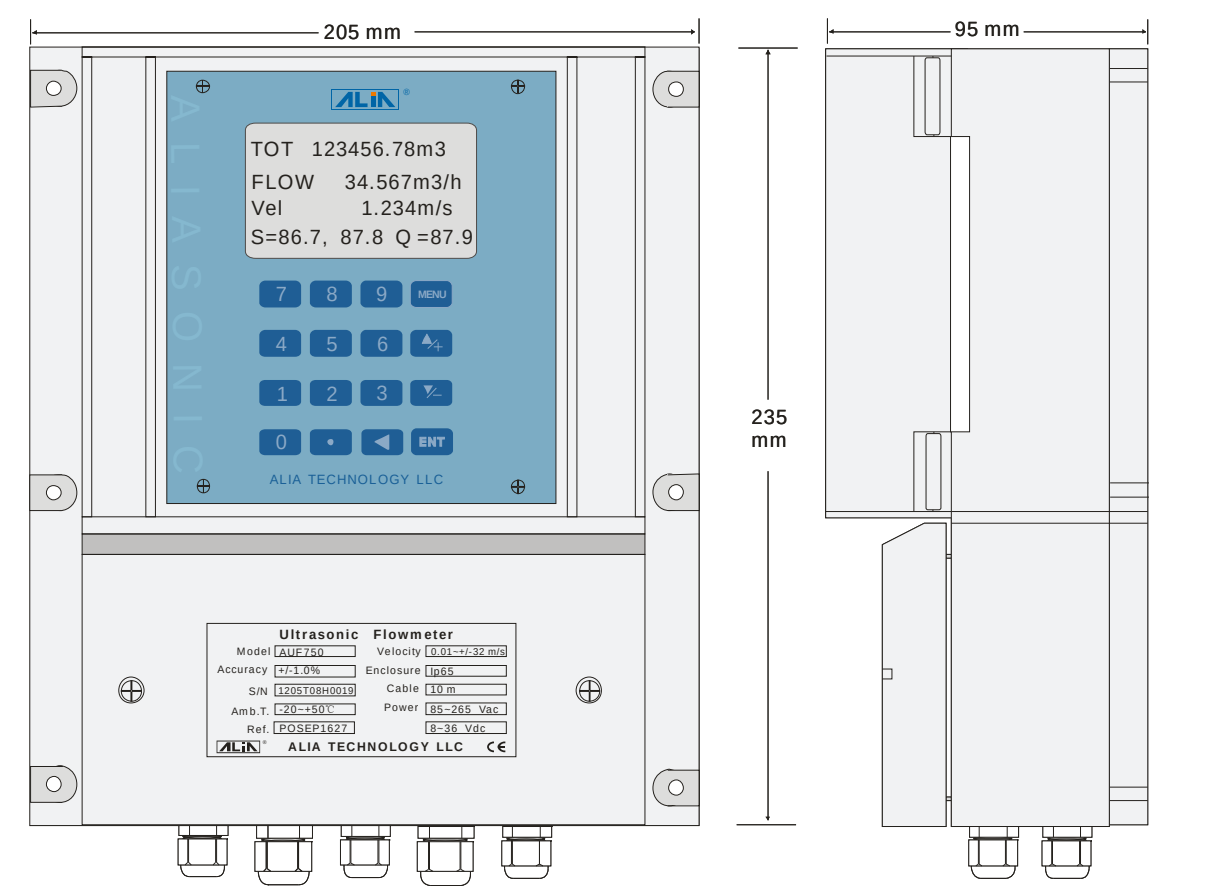
- HM Type

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

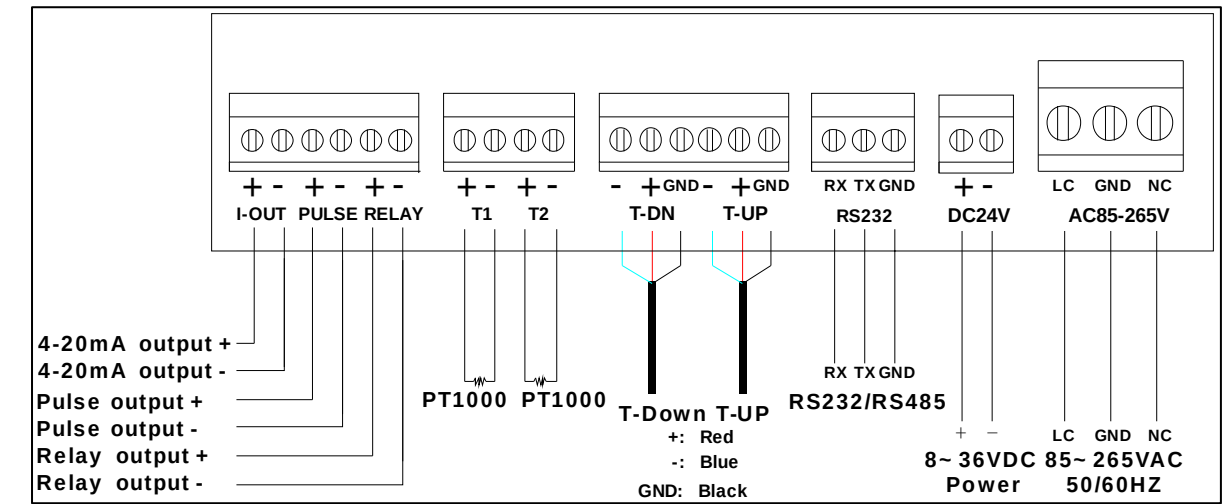
Dimensions : 64 * 39 * 44 mm



➤DIMENSIONS FOR ULTRASONIC FLOWMETER



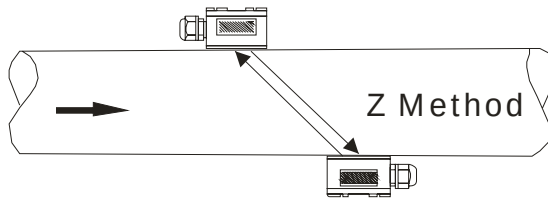
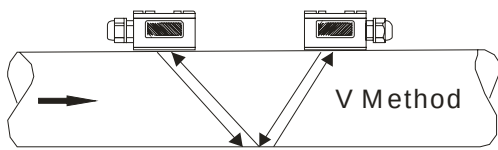
➤WIRING DIAGRAM



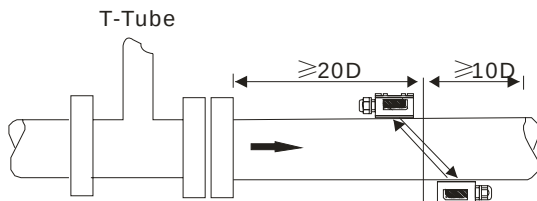
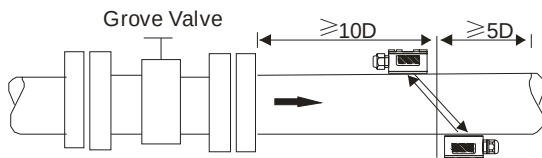
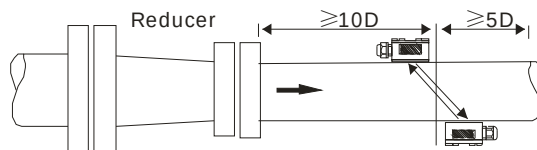
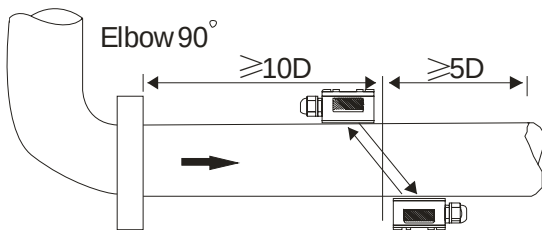
➤ACCESSORIES



INSTALLATION



CONDITIONS ON STRAIGHT PIPE



MODEL SELECTION GUIDE

AUF750PE Series						
Example 1:AUF750PE-S-010-NN-AM(AUF750PE Converter+Small Sensor-15~100mm+Cable 10M+85-265 Vac or 8-36VDC Power)						
AUF750PE-		X	-XXX	-XX	-XX	Description
Basic Selection	AUF750PE-				Basic Model, Include * AUF750PE Converter * Mounting Belt * Acoustic Gel * Fixed Glue	
Detector		S				Small Sensors, 15 ~ 100 mm (1/2" ~ 4"),-40 ~ +110 °C
		M				Middle sensors, 50 ~ 1000 mm (2" ~ 40"),-40 ~ +110 °C
		L				Large Sensors, 300 ~ 6000 mm (12" ~ 240"),-40 ~ +110 °C
		HS				High-Temperature Small Sensors, 15~100mm (1/2"~4"), -40 ~ +160 °C
		HM				High-Temperature Middle Sensors, 50~1000mm (2"~40"), -40 ~ +160 °C
Signal Cable Length		- NNN				3-300M
Power Supply				- NN		85-265VAC, 50/60 Hz or 8-36VDC
Option					-AM	Ambient Temperature Inspection