

GENERAL

ALIASONIC The AUF751 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

- ❑ 2 lines LCD display with flowrate, totalizer...
- ❑ Stores up 720 Hours / 365 Days / 36 Months / 10 Years Totalizer value
- ❑ Wide range velocities of 0.01 ~ +/-32 m/s
- ❑ Transducers for pipe size from 25-4000 mm
- ❑ High accuracy of +/-0.5% of reading
- ❑ Various output types as 4-20 mA, pulse, RS485, HART
- ❑ With self-calibration function, real-time measurement calibration
- ❑ Accurate and stable measurement
- ❑ Response time less than 1 second
- ❑ The sensor has anti-high temperature and long service life, It can reach to 200 °C in a short time



STANDARD SPECIFICATION

- | | | | |
|-----------------------|--|-----------------------|---|
| ● Measuring Principle | : Transit time difference | ● Keypad | : 16 Keys with tactile action |
| ● Pipe Size | : NN Type : 25-4000 mm (1"-160") | ● Response Time | : Less than 1 second |
| | : HT Type : 25-4000 mm (1"-160") | ● Flow Velocity | : 0.01 ~ +/-32 m/s |
| ● Pipe Material | : Cast Iron, Stainless Steel, Ductile Iron | ● Resolution | : 0.001 m/s |
| | Copper, PVC, Aluminum, Fiberglass etc. | ● Ambient Temperature | : -20~50 °C |
| ● Liner Material | : Tar Epoxy, Rubber, Mortar, Polypropylene, | ● Mounting | : Wall mounting |
| | Polystyrol, Polyethylene, Teflon, etc. | ● Max. Cable Length | : 100 m |
| ● Sensor Housing | : S.S. 304 | ● Power Consumption | : Less than 5W |
| ● Temperature | : Sensor NN : -40 ~ 70 °C | ● Power Supply | : 90-260 VAC 50/60 Hz and 24 +/-10% VDC |
| | : Sensor HT : -40 ~ 160 °C | ● Data Storage | : Operation parameters and totalizer |
| ● Display | : 2 Lines LCD with illumination | | figures are stored by EEPROM for more |
| | Flowrate : 7 Digit with decimal point | | than 10 years |
| | Totalizer : 8 Digit, Forward, Reverse & Net values. | ● Current Output | : 4-20 mA |
| | Engineering Unit : m ³ , L, USgal, USbbl, ft ³ | ● Pulse Output | : 1 unit / pulse |
| | Time Unit : sec, min, hour, day | ● Communication | : RS485 (MODBUS) (Standard) |
| | Energy Unit : car/h, Kcal/h, Mcar/h, MJ/h, GJ/h, BTU/h | | : HART (Compatible) (Option) |
| | Other : Velocity, Date, Time, Signal condition. | ● Dimensions | : 185 * 240 * 120 mm |
| ● Accuracy | : +/-1% ~ +/-1.5% of reading (0.5-30 m/s) | ● Weight | : 1.0 kg |
| | : +/-0.5% of reading (Online calibration) | ● Protection Class | |
| ● Repeatability | : +/-0.2% of reading | | Converter : IP65 |
| ● 4-20 mA Input | : 2 points, programable Range | | Sensor : IP68 (Submersible) |
| | Function : Temp. Measurements for Thermal Energy | | |



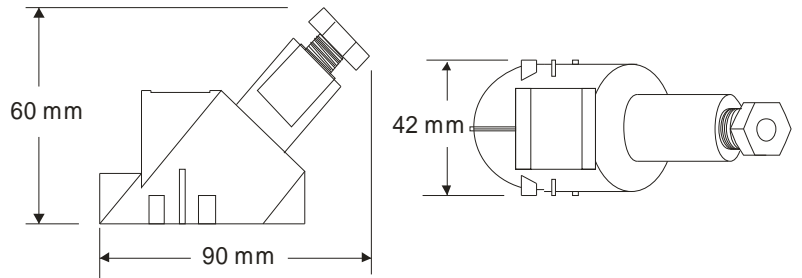
SENSOR SPECIFICATION

• Fluid Temperature : -40~70 °C

• NN Type

Pipe Size : 25-4000 mm (1"-160")

Dimensions : 90 * 60 * 42 mm

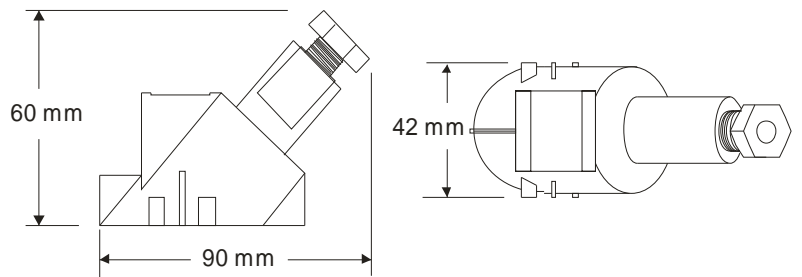


• Fluid Temperature : -40~160 °C

• HT Type

Pipe Size : 25-4000 mm (1"-160")

Dimensions : 90 * 60 * 42 mm



ACCESSORIES



Mounting Belt



Mounting Tool

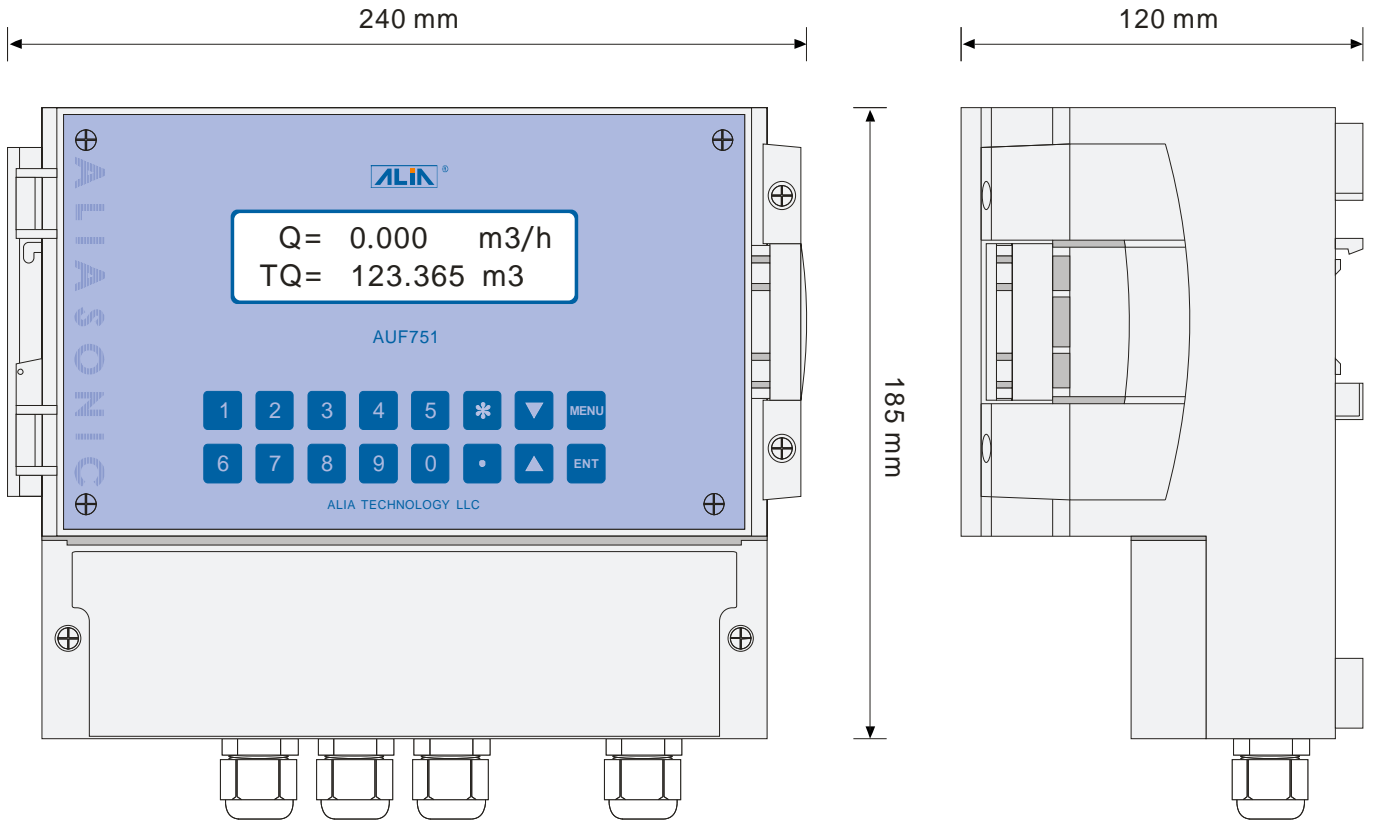


Acoustic Gel

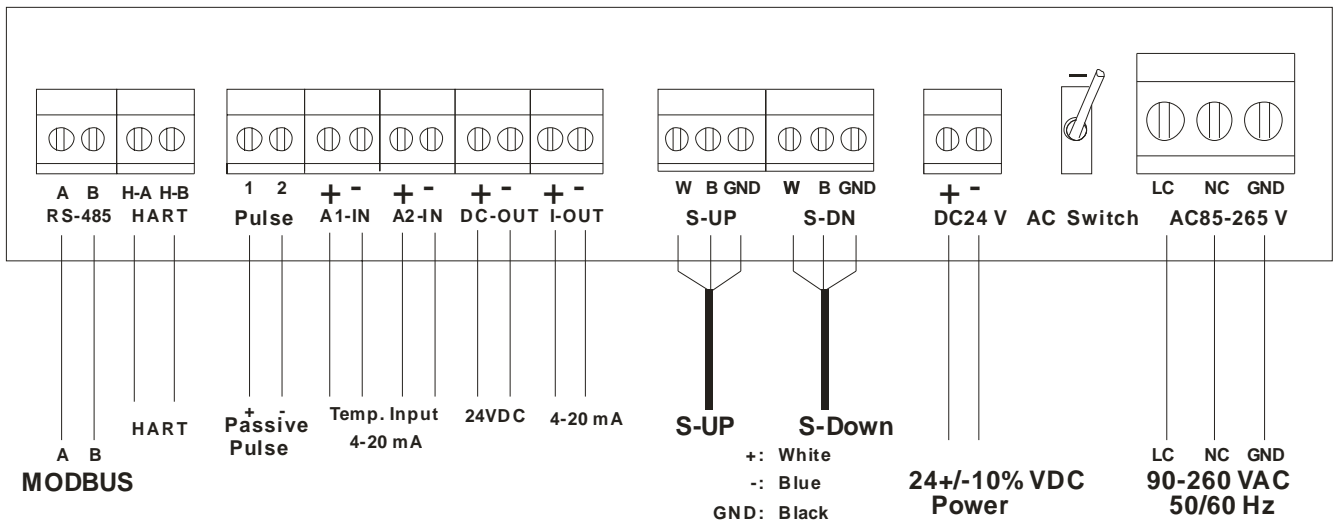


Signal Cable

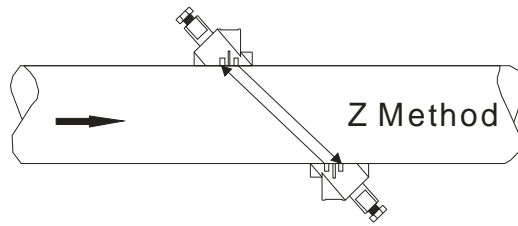
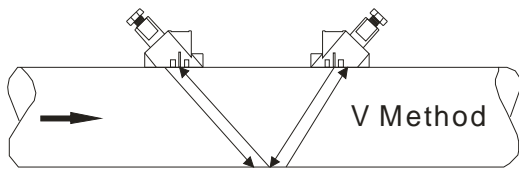
➤ DIMENSIONS FOR ULTRASONIC FLOWMETER



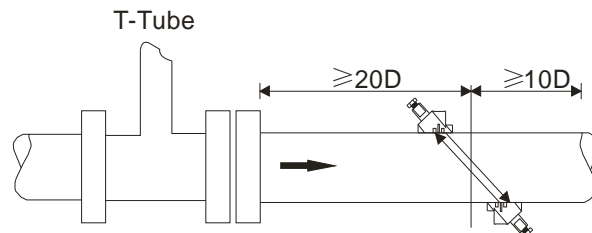
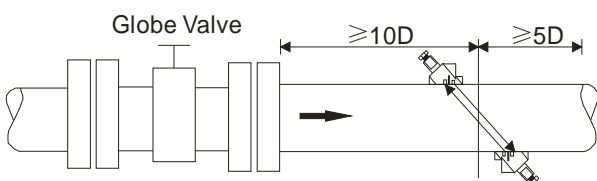
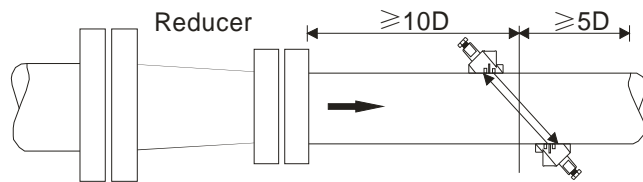
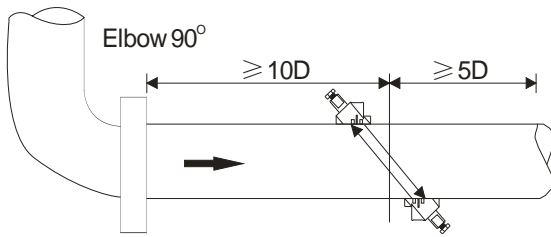
➤ WIRING DIAGRAM



INSTALLATION



CONDITIONS ON STRAIGHT PIPE



MODEL SELECTION GUIDE

AUF751 Series					
Example: AUF751-NN-010-NN-NN (AUF751 Converter + Standard Sensors + Cable 10 m + 90-260 VAC and 24 +/-10% VDC Power)					
AUF751-	XX	-XXX	-XX	-XX	Description
Basic Selection	AUF751-				Basic Model, Include * AUF751 Converter * Mounting Belt * Acoustic Gel * Fixed Glue
Detector	NN				Standard Sensors, 25-4000 mm (1"-160"), -40~70 °C
	HT				High-Temperature Sensors, 25-4000 mm (1"-160"), -40~160 °C
Signal Cable Length		-NNN			010-100 m, Applicable temperature : -20~70°C
Power Supply			-NN		90-260 VAC, 50/60 Hz and 24 +/-10% VDC
Option				-NN	None
				-TE	Measurements for Thermal Energy (4-20 mA input * 2)
				-LC	Anti-Low Temperature Signal Cable : -40~90°C
				-HT	HART Signal (Compatible)
				-LP	Lightening Protector (With Power Supply : DC Only)
				-MT	Mounting Tool for sensor (S.S. 304, pipe size 25-125 mm)