



# ALIASONIC

## Transit-Time Ultrasonic Flowmeter

### Model AUF752 Series

## GENERAL

**ALIASONIC** The AUF752 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
- Optional dual channel flowmeter, more accurate and reliable measurement
- 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
- Pipe Size : NN Type : 25-4000 mm (1"-160")  
HT Type : 25-4000 mm (1"-160")
- Pipe Material : Cast Iron, Stainless Steel, Ductile Iron  
Copper, PVC, Aluminum, Fiberglass etc.
- Liner Material : Tar Epoxy, Rubber, Mortar, Polypropylene,  
Polystyrol, Polyethylene, Teflon, etc.
- Sensor Housing : S.S. 304
- Temperature : Sensor NN : -40 ~ 70 °C  
Sensor HT : -40 ~ 160 °C
- Display : 2 Lines LCD with illumination  
Flowrate : 7 Digit with decimal point  
Totalizer : 8 Digit, Forward, Reverse & Net values.  
Engineering Unit : m<sup>3</sup>, L, USgal, USbbl, ft<sup>3</sup>  
Time Unit : sec, min, hour, day  
Energy Unit : car/h, Kcal/h, Mcar/h, MJ/h, GJ/h, BTU/h  
Other : Velocity, Date, Time, Signal condition.
- Accuracy : +/-1% ~ +/-1.5% of reading (0.5-30 m/s)  
+/-0.5% of reading (Online calibration)
- Repeatability : +/-0.2% of reading
- 4-20 mA Input : 2 points, programable Range  
Function : Temp. Measurements for Thermal Energy
- Keypad : 16 Keys with tactile action
- Response Time : Less than 1 second
- Flow Velocity : 0.01 ~ +/-32 m/s
- Resolution : 0.001 m/s
- Ambient Temperature : -20~50 °C
- Mounting : Wall mounting
- Max. Cable Length : 100 m
- Power Consumption : Less than 5W
- Power Supply : 90-260 VAC 50/60 Hz and 24 +/-10% VDC
- Data Storage : Operation parameters and totalizer  
figures are stored by EEPROM for more  
than 10 years
- Current Output : 4-20 mA
- Pulse Output : 1 unit / pulse
- Communication : RS485 (MODBUS) (Standard)  
HART (Compatible) (Option)
- Dimensions : 270 \* 185 \* 67 mm
- Weight : 2 kg
- Protection Class : Converter : IP65  
Sensor : IP68 (Submersible)



## ALIA TECHNOLOGY LLC

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AUF752V1.2.3.A4.en



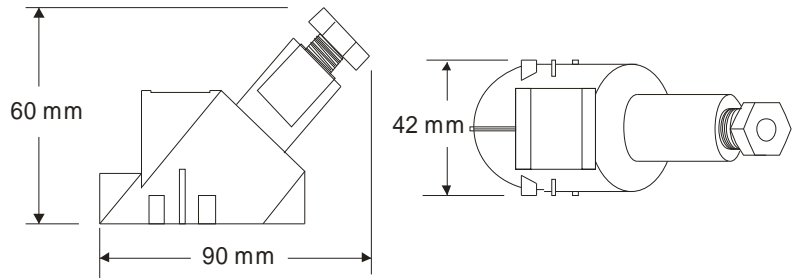
**SENSOR SPECIFICATION**

• Fluid Temperature : -40~70 °C

• NN Type

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

Dimensions : 90 \* 60 \* 42 mm

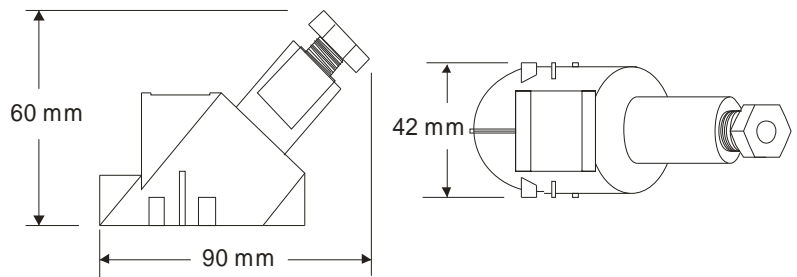


• Fluid Temperature : -40~160 °C

• HT Type

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

Dimensions : 90 \* 60 \* 42 mm



**ACCESSORIES**



Mounting Belt



Mounting Tool

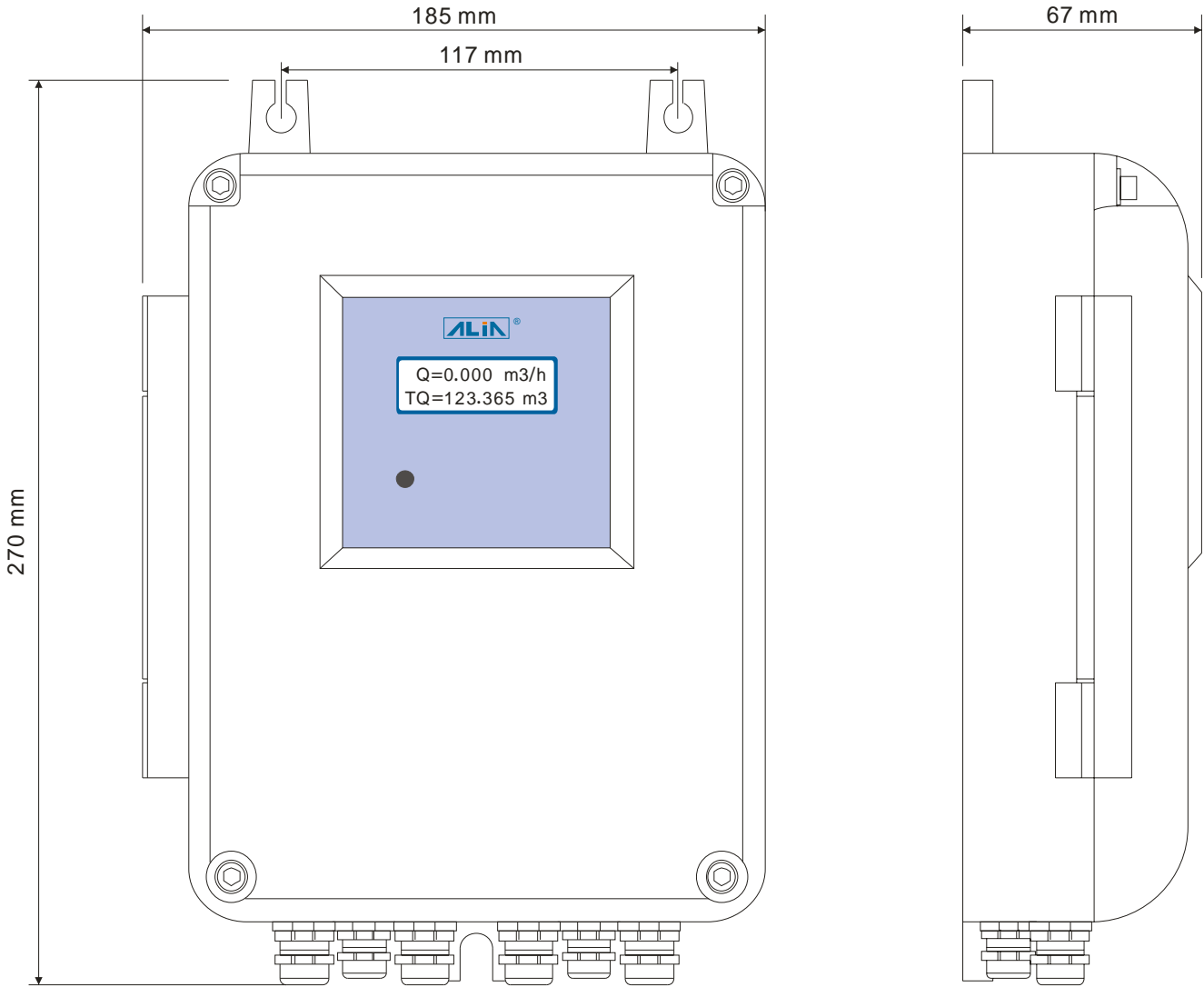


Acoustic Gel

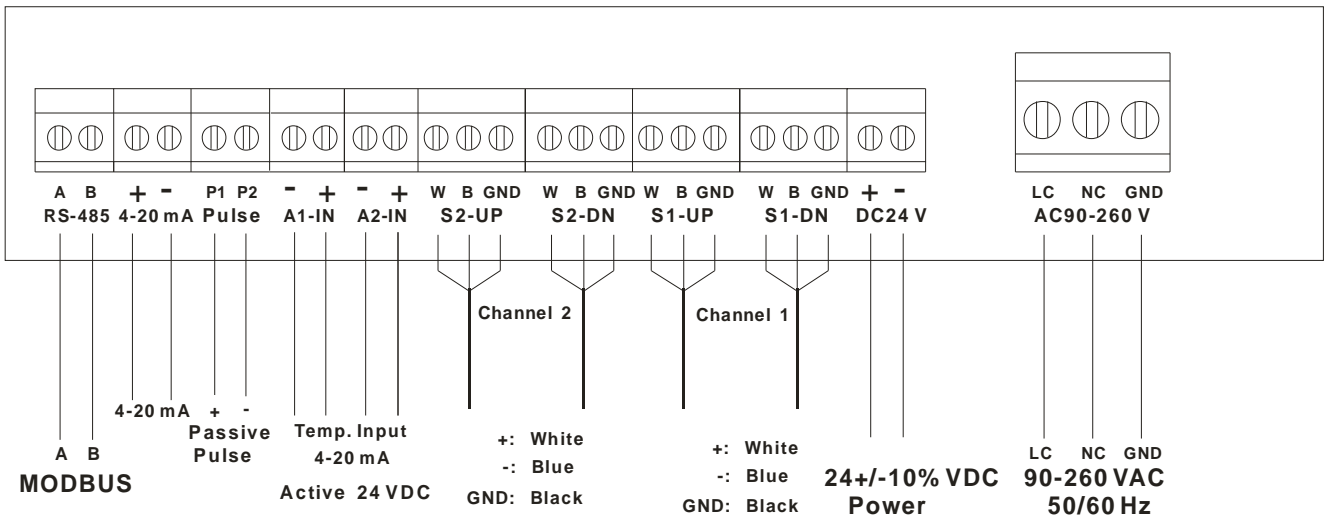


Signal Cable

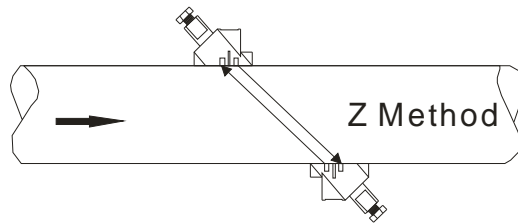
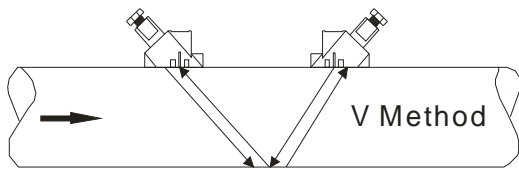
**➤ DIMENSIONS FOR ULTRASONIC FLOWMETER**



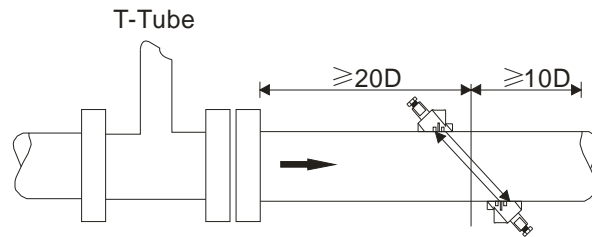
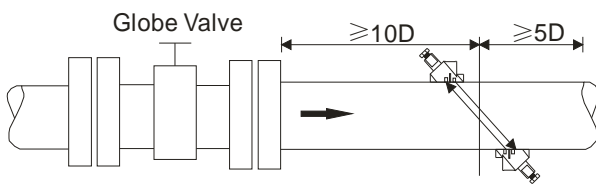
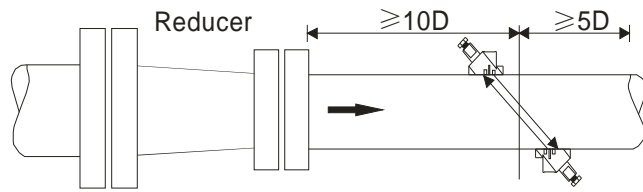
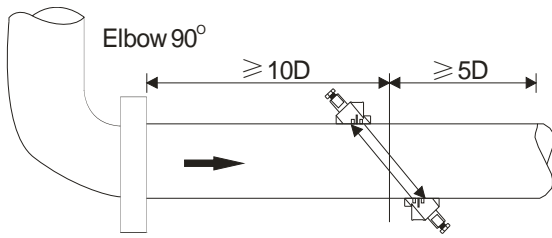
**➤ WIRING DIAGRAM**



**INSTALLATION**



**CONDITIONS ON STRAIGHT PIPE**



**MODEL SELECTION GUIDE**

AUF752 Series					
Example: AUF752-NN-010-NN-NN (AUF752 Converter + Standard Sensors + Cable 10 m + 90-260 VAC and 24 +/-10% VDC Power)					
AUF752-	XX	-XXX	-XX	-XX	Description
Basic Selection	AUF752-				Basic Model, Include * AUF752 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
				-TC	Two channels ultrasonic flowmeter
				-RC	IR Remote Control (Ex ib IIC T6)
				-TE	Measurements for Thermal Energy (4-20 mA input * 2)
				-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)