



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, Alarm, 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 | ● Keypad | : 16 Keys with tactile action |
| ● Pipe Size | : NN Type : 25-4000 mm (1"-160")
HT Type : 25-4000 mm (1"-160") | ● 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 | : 0.001 m/s |
| ● Sensor Housing | : S.S. 304 | ● Ambient Temperature | : -20~50 °C |
| ● Temperature | : Sensor NN : -40 ~ 70 °C
Sensor HT : -40 ~ 160 °C | ● Power Consumption | : Less than 3W |
| ● Display | : 2 Lines LCD with illumination
Flowrate : 7 Digit with decimal point
Totalizer : 8 Digit, Forward, Reverse & Net values.
Engineering Unit : m ³ , L, USgal, USbbl, ft ³
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. | ● Power Supply | : 90-260 VAC 50/60 Hz and 24 VDC +/-10% |
| ● Accuracy | : +/-1% ~ +/-1.5% of reading (0.5-30 m/s)
: +/-0.5% of reading (Online calibration) | ● Data Storage | : Operation parameters and totalizer
figures are stored by EEPROM for more
than 10 years |
| ● Repeatability | : +/-0.2% of reading | ● Current Output | : 4-20 mA * 1 point (Standard)
: 4-20 mA * 2 points (Option)
Rating : 800 Ω Max. |
| ● 4-20 mA Input | : 2 points, programable Range
Function : Temp. Measurements for Thermal Energy | ● Pulse Output | : Scaled Pulse (Open Drain)
Rating : 3-35 VDC, 120 mA Max. |
| ● Mounting | : Wall mounting | ● Alarm Output | : 2 Relays, Upper and Lower alarm (Option)
Rating : 5 A, 30 VDC / 5 A, 250 VAC |
| ● Max. Cable Length | : 100 m | ● Communication | : RS485 (MODBUS) (Standard)
: HART (Compatible) (Option) |
| | | ● Dimensions | : 270 * 185 * 67 mm |
| | | ● Weight | : 2 kg |
| | | ● Protection Class | Converter : IP65
Sensor : IP68 (Submersible) |



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AUF752V1.2.3.r2.A4.en



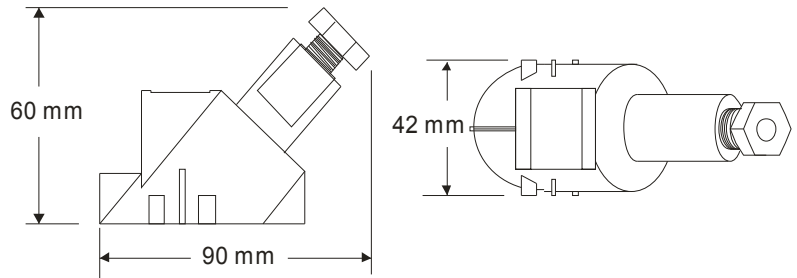
SENSOR SPECIFICATION

• Fluid Temperature : -40~70 °C

• NN Type

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

Dimensions : 90 * 60 * 42 mm

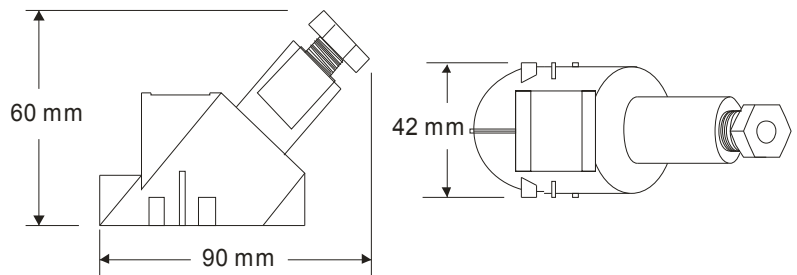


• Fluid Temperature : -40~160 °C

• HT Type

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

Dimensions : 90 * 60 * 42 mm



ACCESSORIES



Mounting Belt



Mounting Tool

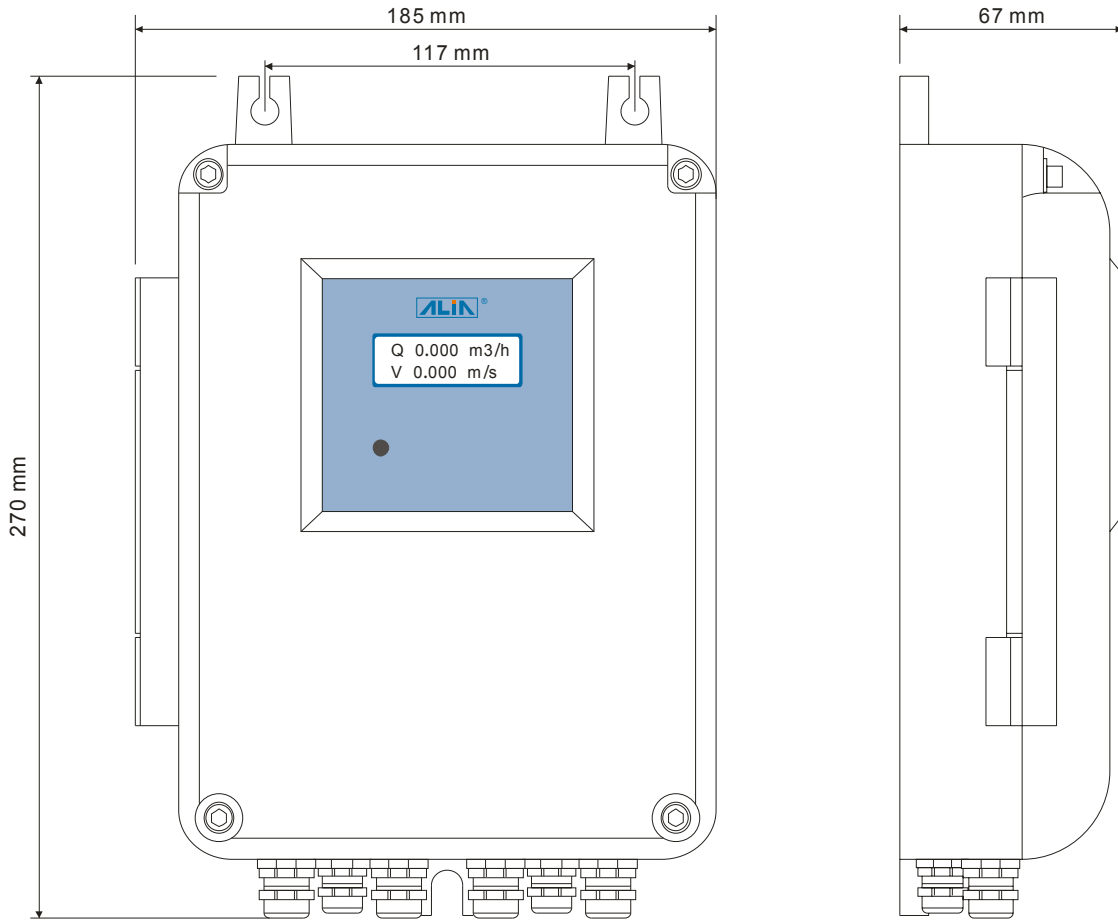


Acoustic Gel

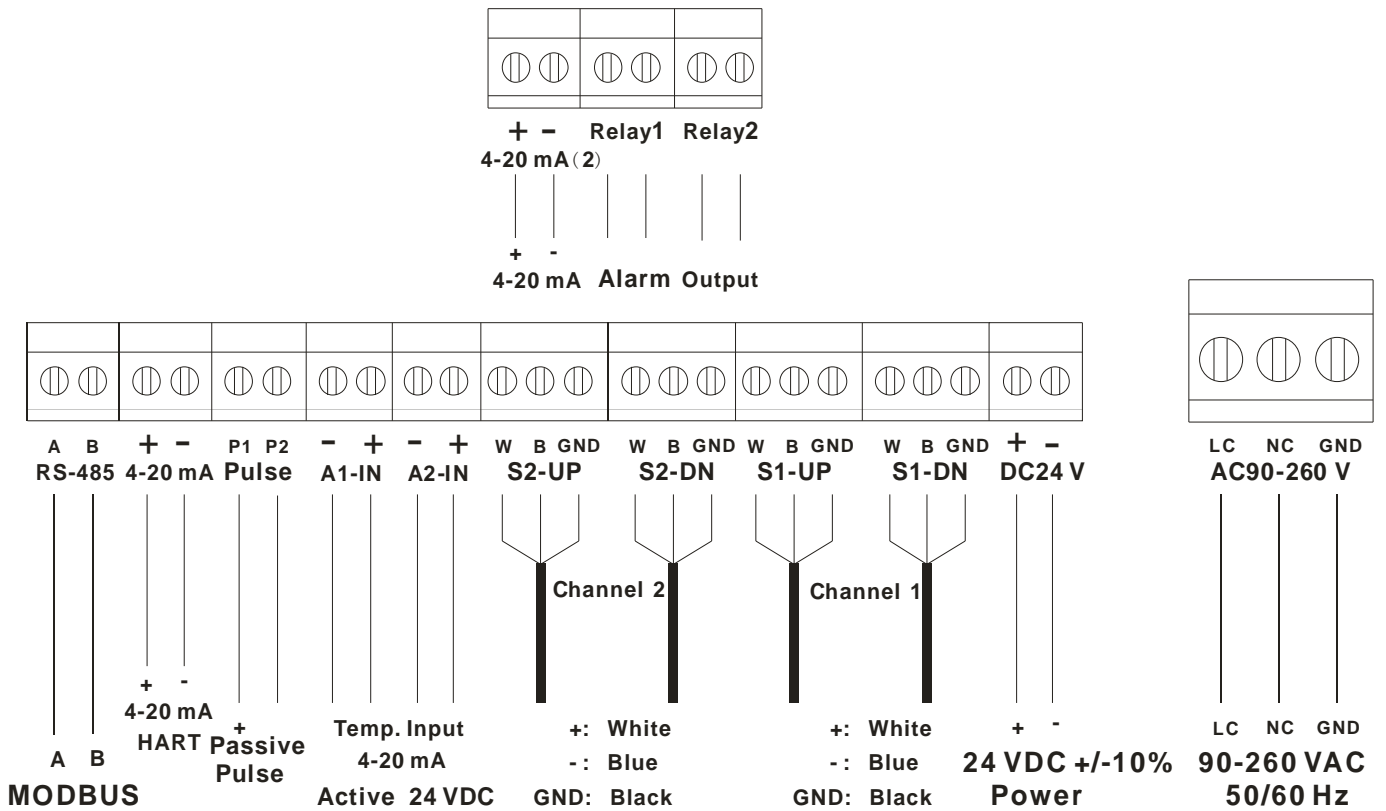


Signal Cable

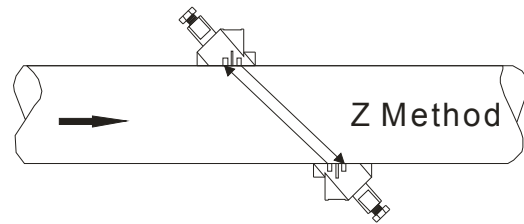
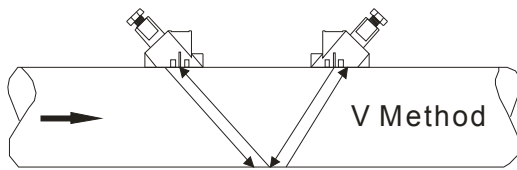
➤ DIMENSIONS FOR ULTRASONIC FLOWMETER



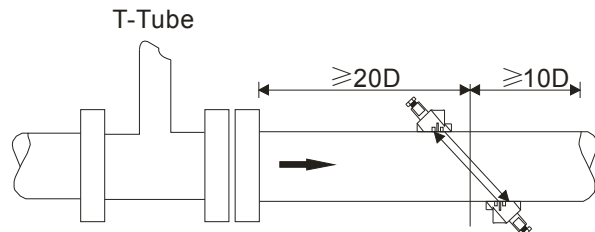
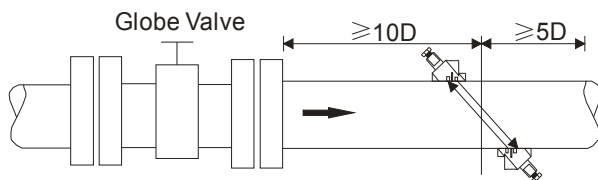
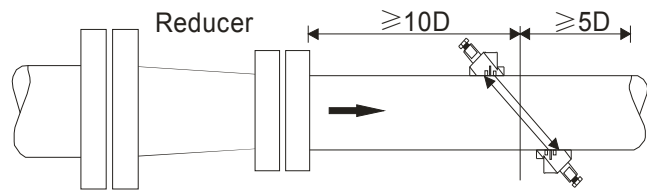
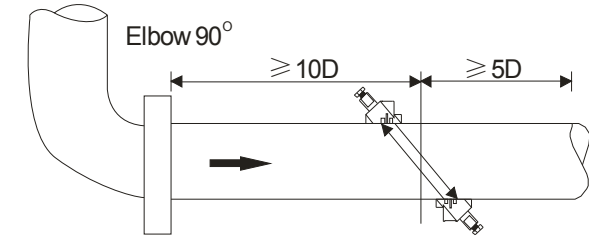
➤ WIRING DIAGRAM



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 VDC +/-10% 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 VDC +/-10%
Option				-NN	None
				-TC	Two channels ultrasonic flowmeter
				-R2	Relay Alarm Output * 2 points
				-C2	Add one point 4-20 mA Output
				-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)	