



ALIASONIC

Portable Transit-Time Ultrasonic Flowmeter

Model AUF620 Series

GENERAL

ALIASONIC The AUF620 Series is a portable transit-time ultrasonic flowmeter with clamp-on sensors for non-invasive liquid measurement. Based on microprocessor and programmable flow measurement techniques the process flow can be accurately measured without interrupting the flow and with 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
- Sensors for pipe size from 25-4000 mm
- Lithium Battery lasts for over 8 hours continuous operation
- Maximum temperature 160 °C
- With RS485 communication and print function
- With self-calibration function, real-time measurement calibration
- Accurate and stable measurement
- Response time less than 1 second

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 Digits with decimal point
Totalizer : 8 Digits, Forward, Reverse & Net values
Engineering Unit : m³, L, USgal, USbbl, ft³
Time Unit : sec, min, hour, day
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
- Protection Class
Converter : IP52
Converter Housing : IP67
Sensor : IP68 (Submersible)
- Keypad : 17 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
- Ambient Humidity : 90% RH or less
- Built-in Battery : 10.8 V Lithium Battery
- Operation Time : >8 Hours
- Charger : 90-260 VAC 50/60 Hz, 8-12 hours charging
- Data Storage : Operation parameters and totalizer
figures are stored by EEPROM for more
than 10 years
- Communication : RS485 (MODBUS)
- Print : Impact printer
Print Content : Date, Time, Network ID, Flowrate, Totalizer
Printer Paper : Needle printer professional paper
44 * 30 mm
- Cable Entry : Push-Pull self-latching connectors
(coaxial 3 contacts)
- Power Consumption : Less than 3W
- Dimensions : 330 * 280 * 135 mm
- Weight : 2.5 kg (Converter)
4.5 kg (Converter, Sensor...)



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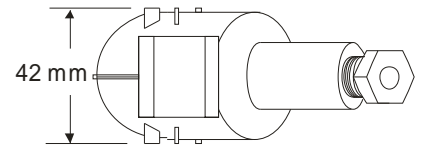
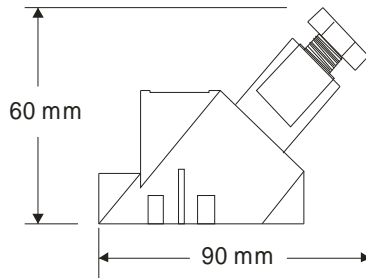
URL : www.alia-inc.com
E-mail : alia@alia-inc.com
AUF620V1.2.3.A4.en

SENSOR SPECIFICATION

- Fluid Temperature : -40~70 °C

- NN Type

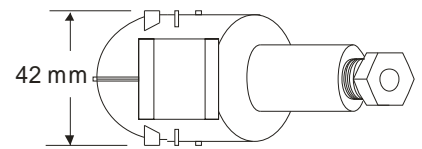
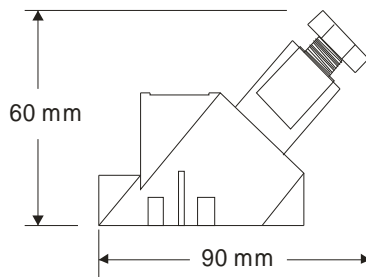
Pipe Size : 25-4000 mm (1"-160")
 Dimensions : 90 * 60 * 42 mm



- Fluid Temperature : -40~160 °C

- HT Type

Pipe Size : 25-4000 mm (1"-160")
 Dimensions : 90 * 60 * 42 mm



ACCESSORIES



Acoustic Gel



Measuring Tape



Charging Cable



RS485 Communication Cable

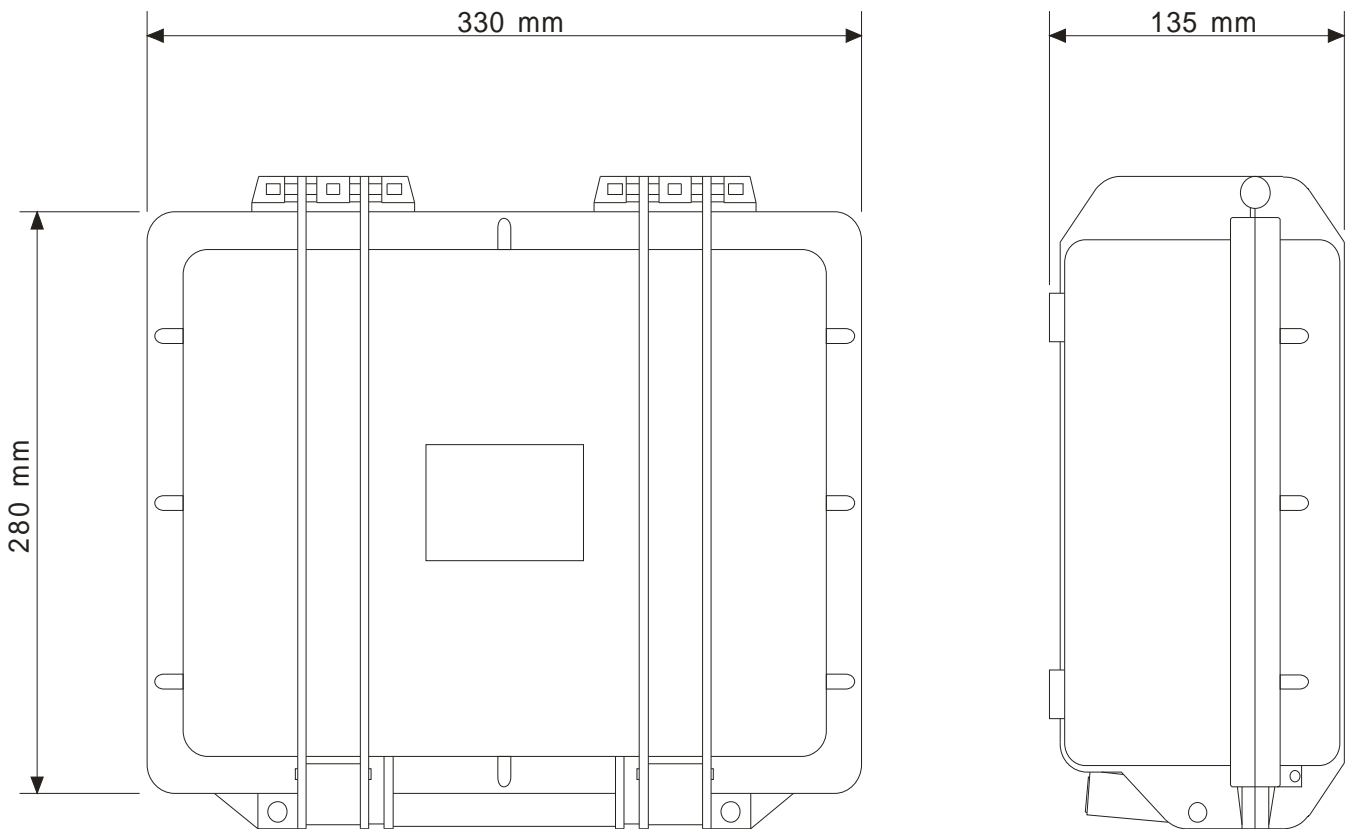


Mounting Belt



Backpack

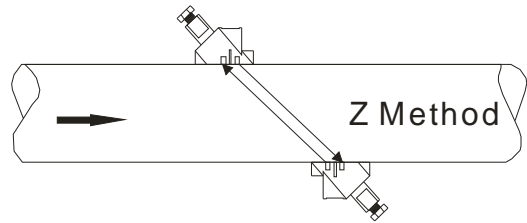
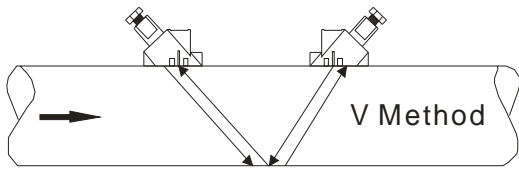
➤ DIMENSIONS FOR ULTRASONIC FLOWMETER



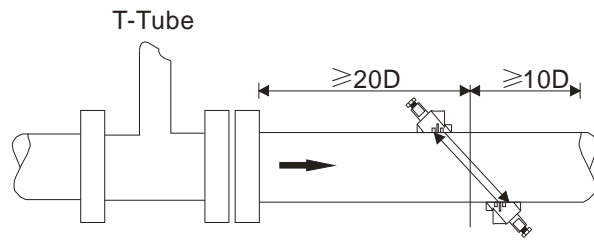
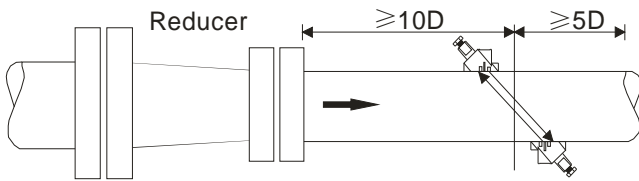
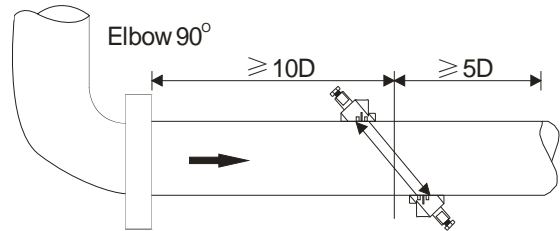
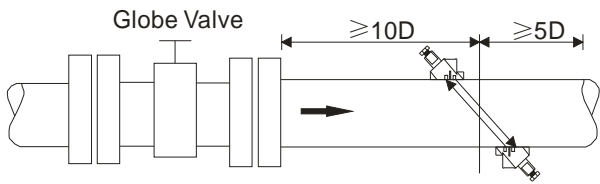
➤ OPERATION PANEL INTRODUCTION



INSTALLATION



CONDITIONS ON STRAIGHT PIPE



MODEL SELECTION GUIDE

AUF620 Series				
Example: AUF620-NN-B1-10 (AUF620 Converter + Standard Sensors + Mounting Belt 3 m + Sensor Cable 10 m)				
AUF620-	XX	-XX	-XX	Description
Basic Selection	AUF620-			Basic Model, Include * AUF620 Converter * Charging cable * RS485 Communication Cable 5 m * Acoustic Gel * Measuring Tape * Portable bag / box
Detector	NN			Standard Sensors, 25-4000 mm (1"-160"), -40~70 °C
	HT			High-Temperature Sensors, 25-4000 mm (1"-160"), -40~160 °C
Mounting Belt		-B1		3 m, 1 Pair
			-B2	6 m, 1 Pair
Cable Length			-05	5 m, 2 Cables
			-10	10 m, 2 Cables