



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 | ● Keypad | : 17 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, | ● Ambient Humidity | : 90% RH or less |
| | Polystyrol, Polyethylene, Teflon, etc. | ● Built-in Battery | : 12.6 V Lithium Battery |
| ● Sensor Housing | : S.S. 304 | ● Operation Time | : >8 Hours |
| ● Temperature | : Sensor NN: -40~70 °C | ● Charger | : 90-260 VAC 50/60 Hz, 8-12 hours charging |
| | : 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 Digits with decimal point | | than 10 years |
| | Totalizer : 8 Digits, Forward, Reverse & Net values | ● Communication | : RS485 (MODBUS) |
| | Engineering Unit : m ³ , L, USgal, USbbl, ft ³ | ● Print | : Impact printer |
| | Time Unit : sec, min, hour, day | | Print Content : Date, Time, Network ID, Flowrate, Totalizer |
| | Other : Velocity, Date, Time, Signal condition | | Printer Paper : Needle printer professional paper |
| ● Accuracy | : +/-1% ~ +/-1.5% of reading (0.5-30 m/s) | | 44 * 30 mm |
| | : +/-0.5% of reading (Online calibration) | ● Cable Entry | : Push-Pull self-latching connectors |
| ● Repeatability | : +/-0.2% of reading | | (coaxial 3 contacts) |
| ● Protection Class | | ● Power Consumption | : Less than 3W |
| | Converter : IP52 | ● Dimensions | : 330 * 280 * 135 mm |
| | Converter Housing : IP67 | ● Weight | : 2.5 kg (Converter) |
| | Sensor : IP68 (Submersible) | | : 4.5 kg (Converter, Sensor...) |



ALIA TECHNOLOGY LLC

633 W. 5th Street, 26th Floor, Los Angeles, CA 90071, USA
 TEL : + 1 - 213 - 533 - 4139 FAX : + 1 - 213 - 223 - 2317



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



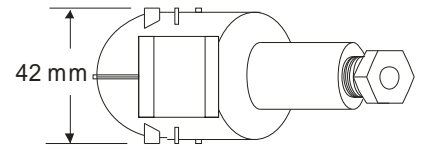
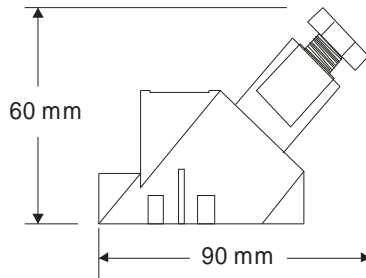
SENSOR SPECIFICATION

● Fluid Temperature : -40~70 °C

● NN Type

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

Dimensions : 90 * 60 * 42 mm

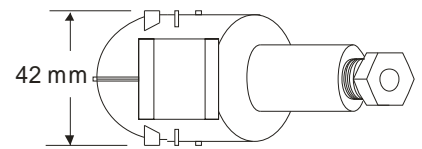
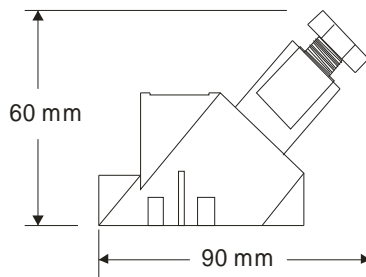


● Fluid Temperature : -40~160 °C

● HT Type

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

Dimensions : 90 * 60 * 42 mm



ACCESSORIES



Acoustic Gel



Measuring Tape



Charging Cable



RS485 Communication Cable

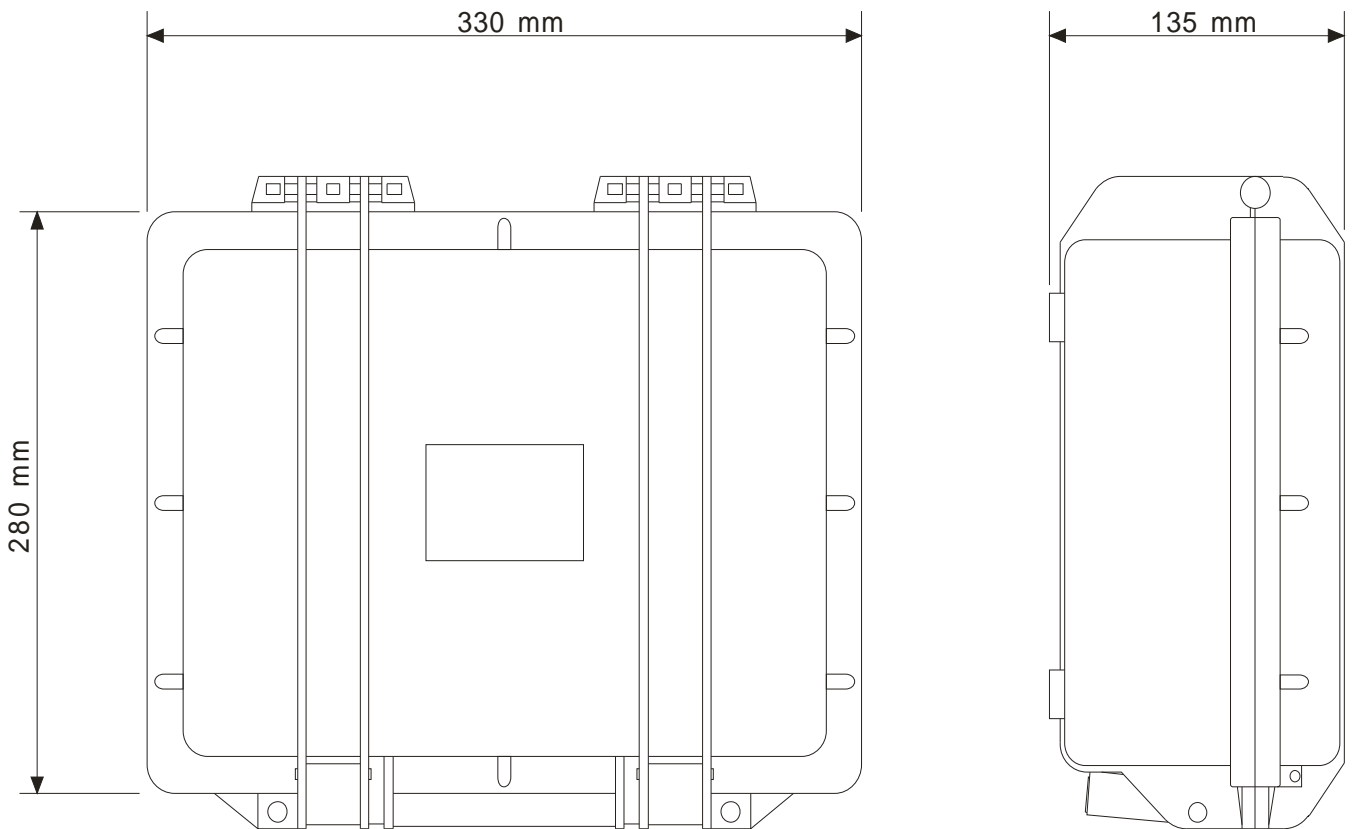


Mounting Belt



Backpack

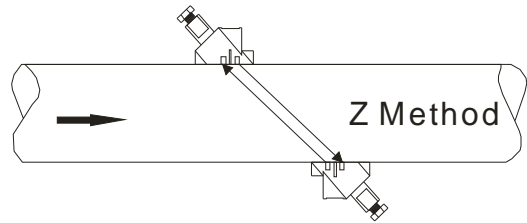
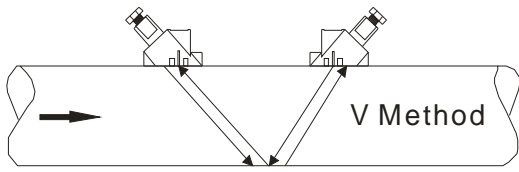
➤ DIMENSIONS FOR ULTRASONIC FLOWMETER



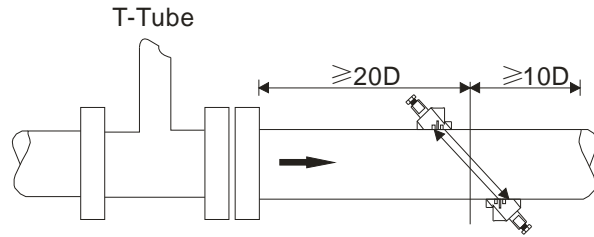
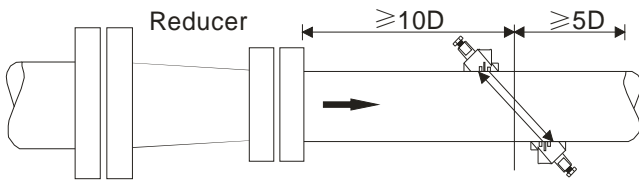
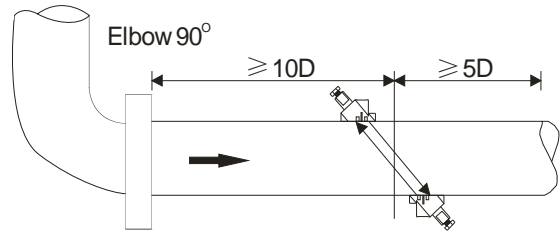
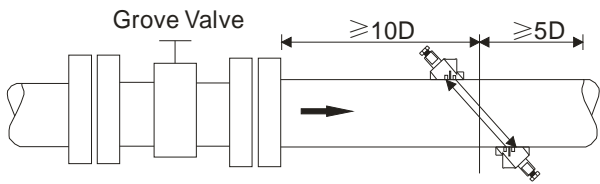
➤ OPERATION PANEL INTRODUCTION



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