

GENERAL

ALIASONIC AUF200 Series measure flow or energy of water running in heating/cooling pipe by temperature sensor based on ultrasonic flowmeter. It's simple, easy to install and battery powered, no need of external power. It can display flow rate, total flow, total heat, total cool, heat power and supply/return temperature etc..

FEATURES

- ❑ Display flow rate, total flow, heating and cooling energy
- ❑ 3.6V battery power, continuous working for 6 years
- ❑ Auto turn off LCD if no operation within 3 minutes, saving power
- ❑ Supply or return alternatively for mounting
- ❑ Displayer 270° rotational
- ❑ Medium temperature up to 105 °C, ΔT 0-80 °C
- ❑ Threaded connection, easy for installation
- ❑ M-BUS communication, easy for remote control and reading
- ❑ Response time < 15s

STANDARD SPECIFICATION

- | | | | |
|-----------------------|--|---------------------|---|
| ● Measuring Principle | : Ultrasonic, Time difference W path | ● Velocity | : 0.01 ~ 5 m/s |
| ● Size | : 15mm, 20mm, 25mm, 32mm, 40mm | ● Connection | : Thread |
| ● Material | | ● Working Pressure | : 25 Kg/cm2 Maximum |
| | Sensor : Stainless Steel 304 | ● Mounting Position | : Supply or Return pipe |
| | Coupling : Brass | ● Displayer | : Compact, 270 ° rotational |
| | Ball Valve : Brass | ● Ambient Temp. | : -10 ~ +55 °C |
| | Display Housing : PC | ● Ambient Humidity | : ≤95% RH |
| ● Turndown Ratio | : 50:1 ~100:1 | ● Power Supply | : Battery Power |
| ● Accuracy | : +/-2% Qt ~ Qmax | ● Battery Life | : > 6 years (3800mA) |
| ● Repeatability | : +/-0.3% of reading | ● Record Cycle | : 18 months |
| ● Sensor Type | : PT1000 2 wire, Class B | ● Record Data | : Monthly Flow & Energy Totalizer |
| ● Medium Temp. Range | : 0 ~ +105 °C | ● Communication | : M-BUS (optional) |
| ● Temp. Resolution | : 0.1 °C | ● Keyboard | : One touch-control key (read only) |
| ● Temp. Difference | : 3 - 80 °C | ● Response Time | : <15 Second |
| ● Temp. Error | : < 0.1 °C | ● Dimensions | : Page 3 |
| ● Temp. Cable Length | : 1.5m | ● Protection Class | : IP65 |
| ● Display | : 2 lines, LCD | ● Communicator | : M-BUS private communicator |
| | Temperature : °C (Supply and Return), ΔT | ● Accessory | : Coupling x 1 Pair |
| | Totalizer : M3, KW or GJ , Hour , 8 Digit | | : Ball Valve with temperature sensor hole |
| | Flow Rate : M3/h, 4 digit | | : M-BUS private communicator |
| | Energy : KW.h (Standard), GJ (Optional) | | |
| ● Pressure Drop | Less than 0.2 Kg/cm2 (at Qn / Q3) | | |

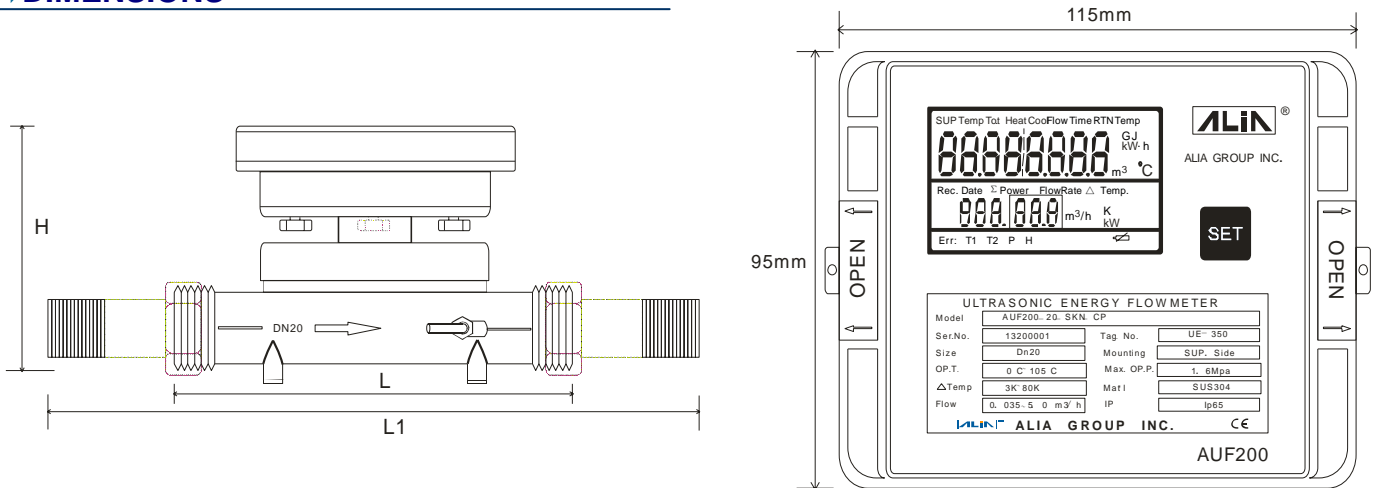


FLOW RANGE

| Normal Diameter | 15 | | | 20 | | | 25 | | | 32 | | | 40 | | |
|--|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|
| Range Code | L | N | H | L | N | H | L | N | H | L | N | H | L | N | H |
| Start Flow Qs L/H | 3 | 3 | 5 | 3 | 5 | 8 | 5 | 8 | 10 | 8 | 10 | 20 | 10 | 20 | 30 |
| Minimum Flow Rate Qmin L/H | 12 | 20 | 30 | 20 | 30 | 35 | 30 | 35 | 40 | 25 | 35 | 60 | 35 | 60 | 100 |
| Transitional Flow Rate Qt L/H | 19 | 32 | 48 | 32 | 48 | 56 | 48 | 56 | 64 | 40 | 56 | 96 | 56 | 96 | 160 |
| Normal Flow Rate Qn M3/H | 0.6 | 1 | 1.5 | 1 | 1.5 | 2.5 | 1.5 | 2.5 | 3.5 | 2.5 | 3.5 | 6 | 3.5 | 6 | 10 |
| Maximum Flow Rate Qmax M3/H | 1.2 | 2 | 3 | 2 | 3 | 5 | 3 | 5 | 7 | 5 | 7 | 12 | 7 | 12 | 20 |
| Accuracy in Range Qmin ~ Qt: +/-5%, Qt ~ Qmax: +/-2%, Class B (According to EEC, Based on ISO 4064:1993) | | | | | | | | | | | | | | | |

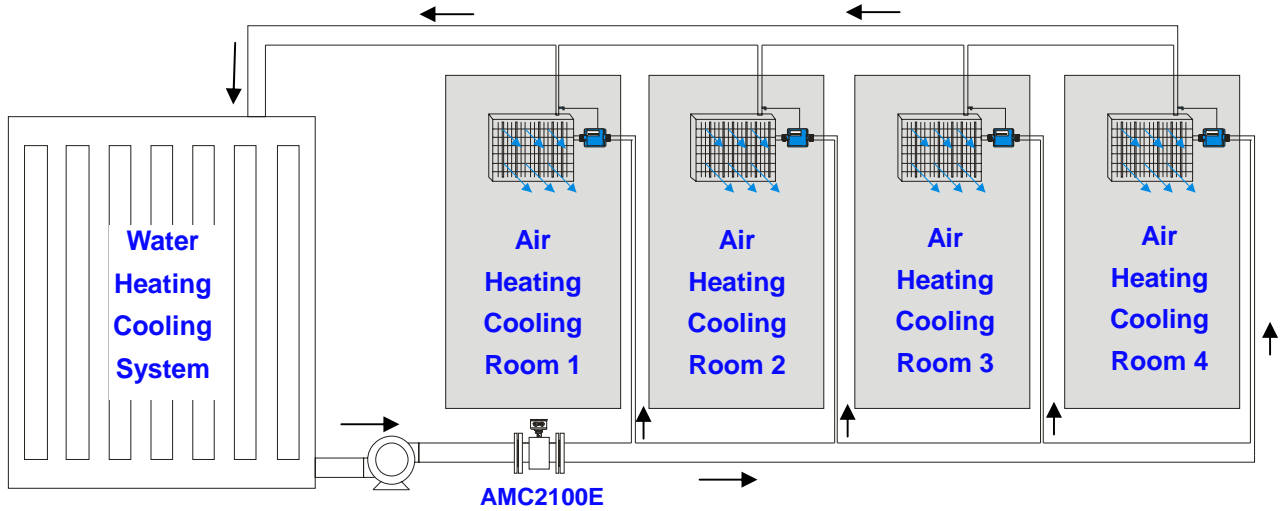
| Normal Diameter | 15 | | | 20 | | | 25 | | | 32 | | | 40 | | |
|---|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|
| Range Code | L | N | H | L | N | H | L | N | H | L | N | H | L | N | H |
| Start Flow Qs L/H | 3 | 3 | 5 | 3 | 5 | 8 | 5 | 8 | 10 | 8 | 10 | 20 | 10 | 20 | 30 |
| Minimum Flow Rate Q1 L/H | 12 | 20 | 30 | 20 | 30 | 35 | 30 | 35 | 40 | 25 | 35 | 60 | 35 | 60 | 100 |
| Transitional Flow Rate Q2 L/H | 19 | 32 | 48 | 32 | 48 | 56 | 48 | 56 | 64 | 40 | 56 | 96 | 56 | 96 | 160 |
| Normal Flow Rate Q3 M3/H | 0.6 | 1 | 1.5 | 1 | 1.5 | 2.5 | 1.5 | 2.5 | 3.5 | 2.5 | 3.5 | 6 | 3.5 | 6 | 10 |
| Maximum Flow Rate Q4 M3/H | 1.2 | 2 | 3 | 2 | 3 | 5 | 3 | 5 | 7 | 5 | 7 | 12 | 7 | 12 | 20 |
| Accuracy in Range Q1 ~ Q2 : +/-5%, Q2 ~ Q4: +/-2%, Class 2, Base on OIML R49 (EN 14154 and ISO 4064:2005) | | | | | | | | | | | | | | | |

DIMENSIONS

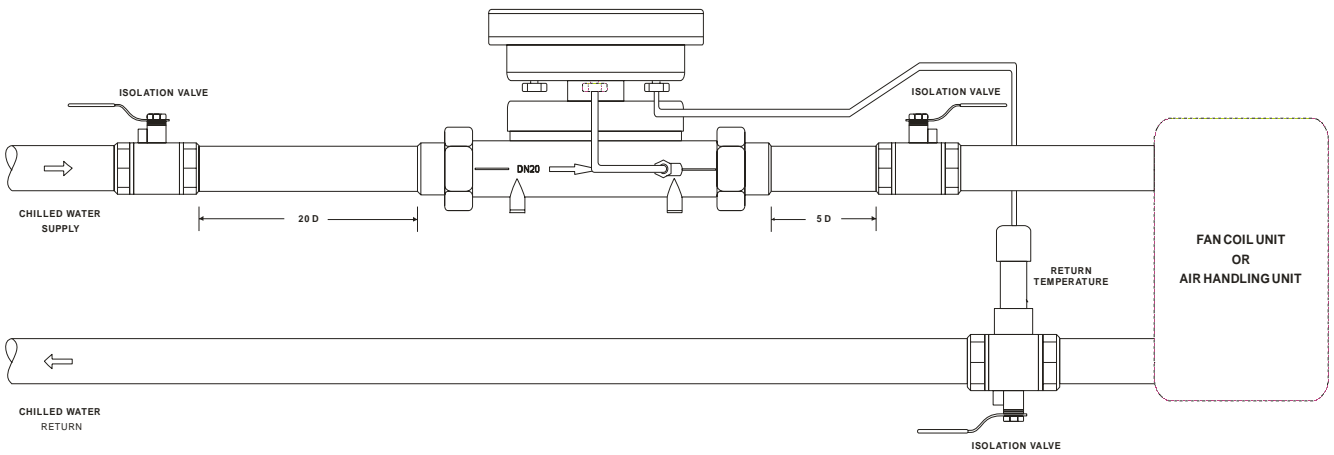


| Size (mm) | 15 | 20 | 25 | 32 | 40 |
|-------------------------|----------|--------|------------|------------|----------|
| L (mm) | 130 | 130 | 160 | 180 | 200 |
| L1 (mm) | 210 | 230 | 268 | 282 | 332 |
| H (mm) | 90 | 96 | 101 | 108 | 114 |
| Thread on meter | 3/4" BSP | 1" BSP | 1-1/4" BSP | 1-1/2" BSP | 2" BSP |
| Thread of coupling | R 1/2" | R 3/4" | R 1" | R 1-1/4" | R 1-1/2" |
| Weight (Kg) | 0.7 | 0.8 | 1 | 1.1 | 1.4 |
| Weight of coupling (Kg) | 0.14 | 0.2 | 0.4 | 0.5 | 0.8 |

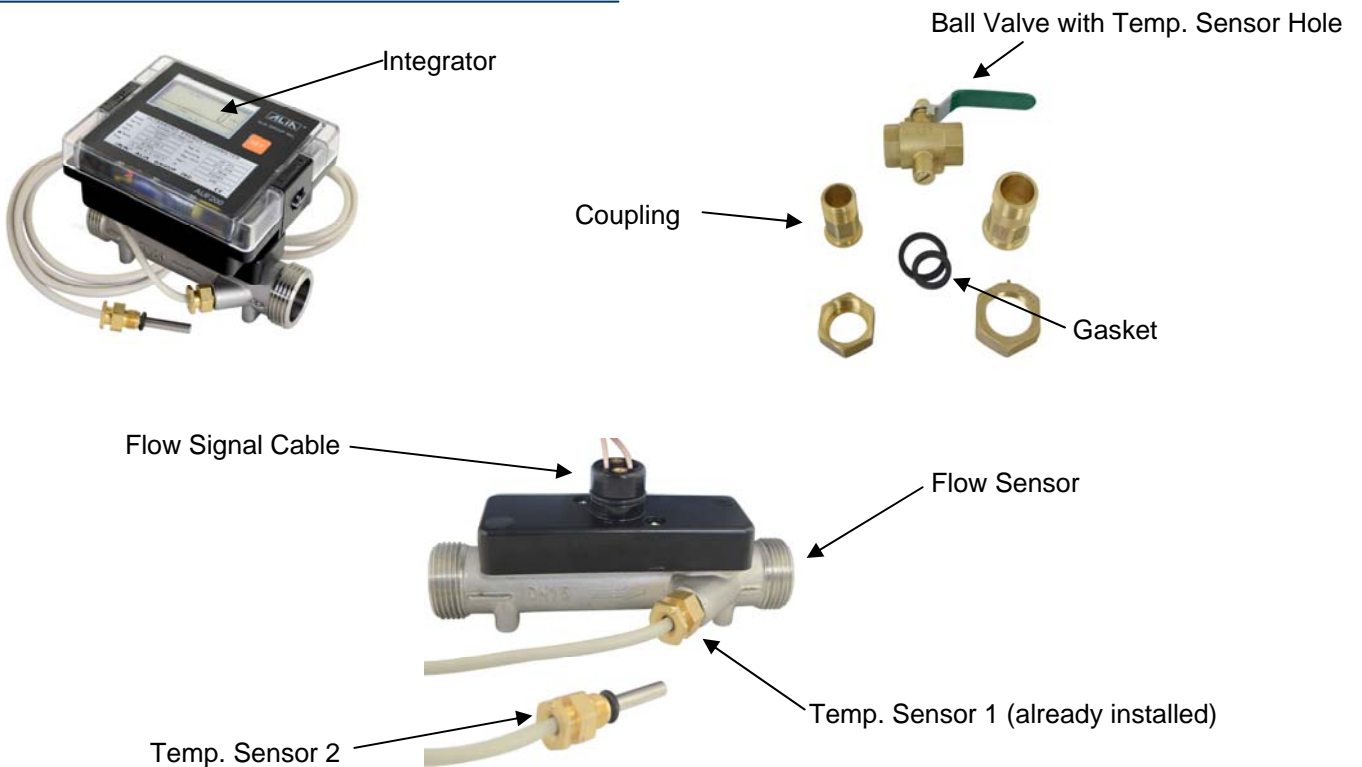
TYPICAL APPLICATION



INSTALLATION



FLOWMETER COMPONENTS



ACCESSORIES



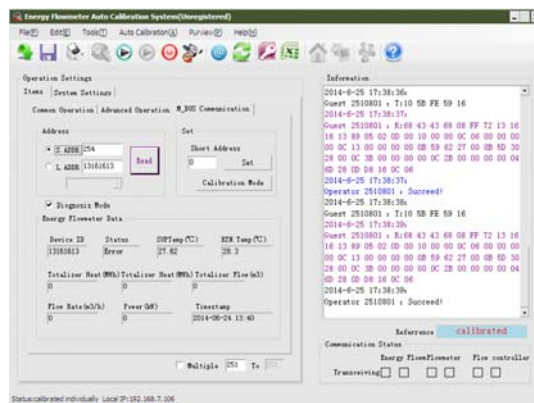
Ultrasonic energy meter



Coupling and Ball Valve (optional)



M-BUS Private Communicator (optional)



Calibration software (optional)

MODEL SELECTION

| AUF200 Series | | | | | | | |
|-------------------------------|-------|----|---|---|----|----|---|
| Example: AUF200-25-SNKN-CP/BV | | | | | | | |
| AUF200- | XX | -X | X | X | X- | XX | Description |
| Size | 15-40 | | | | | | 15 , 20 , 25 , 32 , 40 |
| Install Position | | -S | | | | | Supply Position |
| | | -R | | | | | Return Position |
| Flow Range Code | | | N | | | | Normal Flow Range |
| | | | H | | | | High Flow Range |
| | | | L | | | | Low Flow Range |
| Energy Unit | | | | K | | | Kw.h |
| | | | | G | | | GJ |
| Communication | | | | | N- | | None |
| | | | | | M- | | M-BUS |
| Option | | | | | | NN | None |
| | | | | | | CP | Coupling x 1 pair |
| | | | | | | BV | Ball Valve with Temperature Sensor Hole |
| | | | | | | MB | M-BUS Private Communicator |
| | | | | | | ZZ | Other |

Note:M-BUS private communicator fits AUF200 M-BUS communication only.