

GENERAL

ALIASONIC AUF200PE 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
- Size : 15mm, 20mm, 25mm, 32mm, 40mm
- Material

Sensor : Stainless Steel 304

Coupling : Brass

Ball Valve : Brass

Display Housing : PC

- Turndown Ratio : 50:1 ~100:1
- Accuracy : $\pm 2\%$ $Q_t \sim Q_{max}$
- Repeatability : $\pm 0.3\%$ of reading
- Sensor Type : PT1000 2 wire, Class B
- Medium Temp. Range : 0 ~ +105 °C
- Temp. Resolution : 0.1 °C
- Temp. Difference : 3 - 80 °C
- Temp. Error : < 0.1 °C
- Temp. Cable Length : 1.5m
- Display : 2 lines, LCD
- Temperature : °C (Supply and Return), ΔT
- Totalizer : kW.h (Standard), GJ (Optional)
- : M3, Hour, 8 Digit
- Rate : M3/h, KW, 4 digit
- Pressure Drop : Less than 0.2 Kg/cm² (at Q_n / Q_3)



- Velocity : 0.01 ~ 5 m/s
- Connection : Thread
- Working Pressure : 25 Kg/cm² Maximum
- Mounting Position : Supply or Return pipe
- Displayer : Compact, 270 ° rotational
- Ambient Temp. : -10 ~ +55 °C
- Ambient Humidity : $\leq 95\%$ RH
- Power Supply : Battery Power
- Battery Life : > 6 years (3800mA)
- Record Cycle : 18 months
- Record Data : Monthly Flow & Energy Totalizer
- Communication : M-BUS (optional)
- Keyboard : One touch-control key (read only)
- Response Time : <15 Second
- Dimensions : Page 3
- Protection Class : IP65
- Communicator : M-BUS private communicator
- Accessory : Coupling x 1 Pair
- Option : Ball Valve with temperature sensor hole
- : M-BUS private communicator
- : Ambient Temperature Inspection

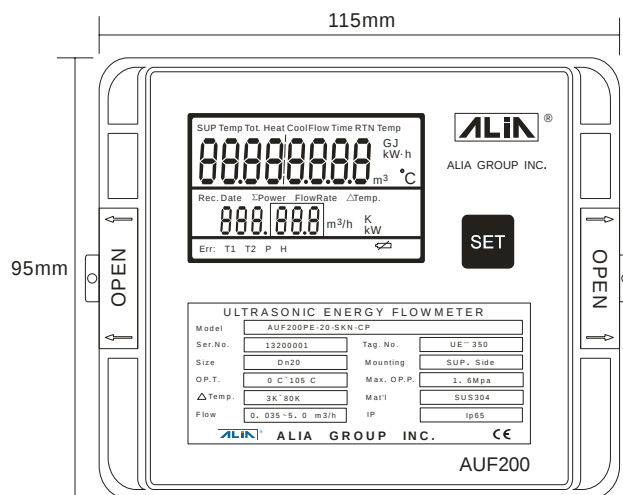
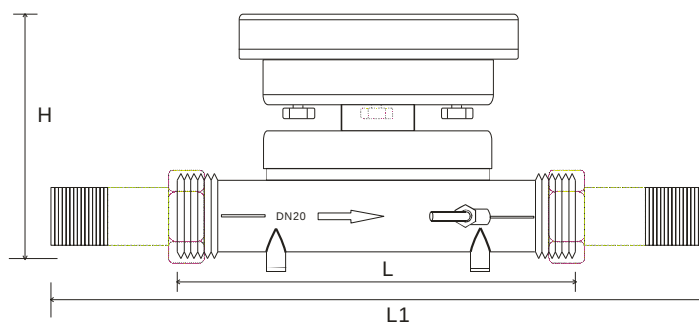


FLOW RANGE

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)															

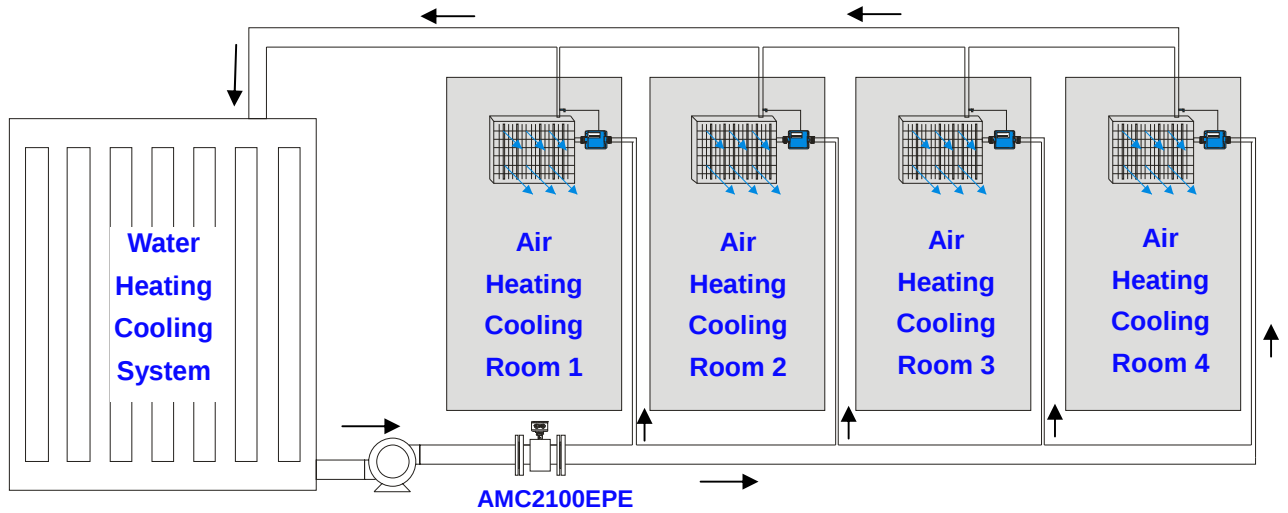
Normal Diameter	15			20			25			32			40		
Range Code	L	N	H	L	N	H	L	N	H	L	N	H	L	N	H
Start Flow Qs L/H	3	3	5	3	5	8	5	8	10	8	10	20	10	20	30
Minimum Flow Rate Q1 L/H	12	20	30	20	30	35	30	35	40	25	35	60	35	60	100
Transitional Flow Rate Q2 L/H	19	32	48	32	48	56	48	56	64	40	56	96	56	96	160
Normal Flow Rate Q3 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

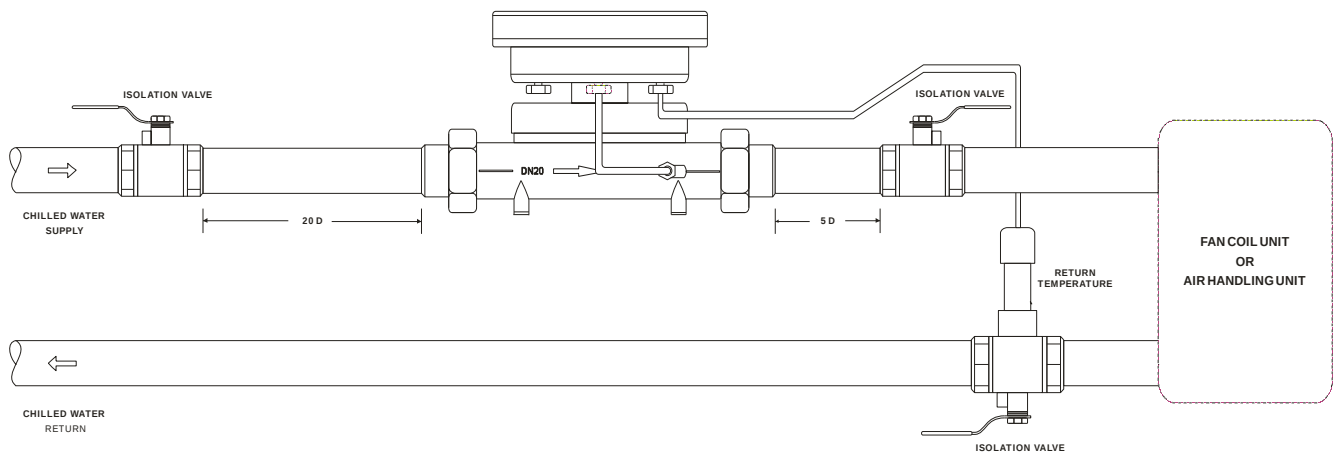


Size (mm)	15	20	25	32	40
L (mm)	130	130	160	180	200
L1 (mm)	210	230	268	282	332
H (mm)	90	96	101	108	114
Thread on meter	3/4" BSP	1" BSP	1-1/4" BSP	1-1/2" BSP	2" BSP
Thread of coupling	R 1/2"	R 3/4"	R 1"	R 1-1/4"	R 1-1/2"
Weight (Kg)	0.7	0.8	1	1.1	1.4
Weight of coupling (Kg)	0.14	0.2	0.4	0.5	0.8

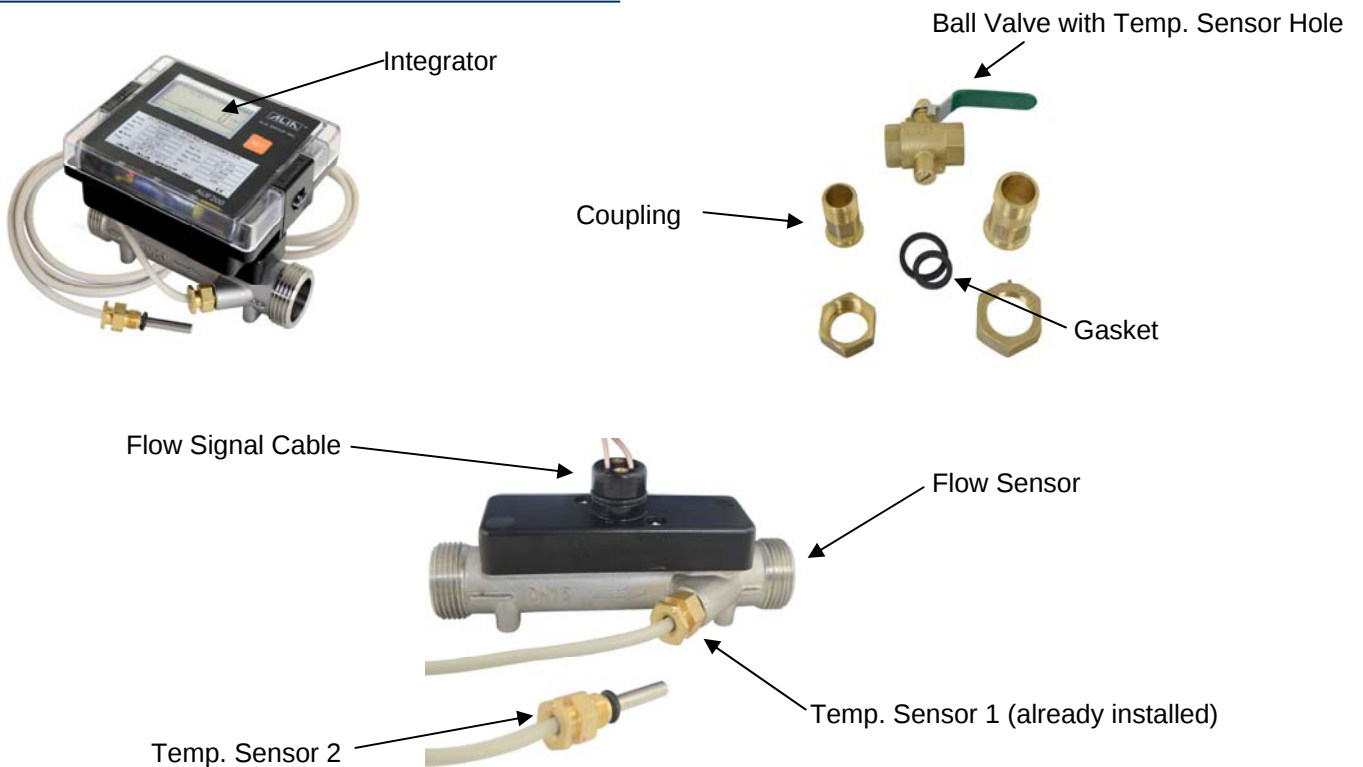
TYPICAL APPLICATION



INSTALLATION



FLOWMETER COMPONENTS



ACCESSORIES



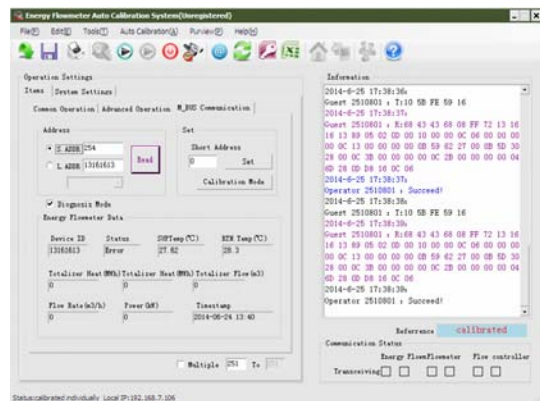
Ultrasonic energy meter



Coupling and Ball Valve (optional)



M-BUS Private Communicator (optional)



Calibration software (optional)

MODEL SELECTION

AUF200PE Series									
Example: AUF200PE-25-SNKN-CP/BV									
AUF200PE-	XX	-X	X	X	X-	XX	Description		
Size	15-40						15 , 20 , 25 , 32 , 40mm		
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		
						AM	Ambient Temperature Inspection		

Note:M-BUS private communicator fits AUF200PE M-BUS communication only.