Ultrasonic BTU meter

U60

Advanced Series

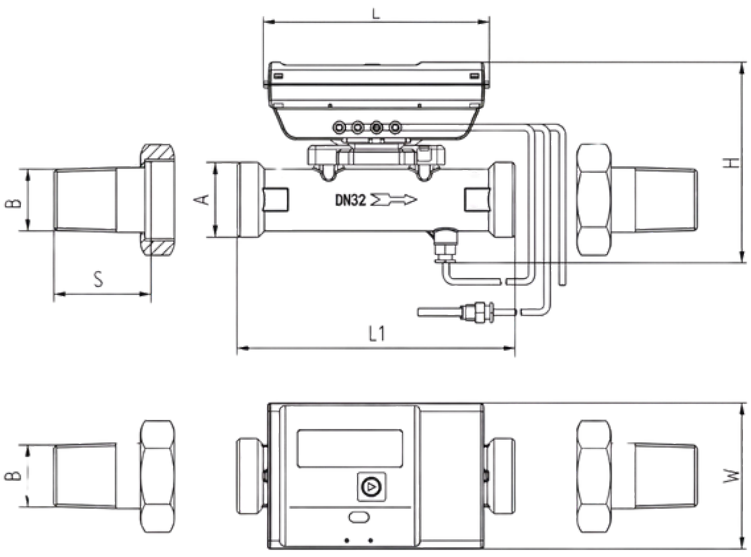
www.connectme.biz

Features

- Anti- Interference, Micro Power Consumption Technology.
- Low Pressure Loss.
- High Accuracy class & High Stability.
- Horizontally or vertically mount, easily do it.
- Heating /cooling Metering.
- Built-in Battery, extremely low energy consumption, no need to replace battery during the meter life long period.
- Smart alarm of low battery, temperature sensor error, short circuit, flow Sensor error.
- Smart data error correcting technology , effective interference resistance, ensuring stable data.
- Communication Interface - Mbus, WMBus, Modbus RS-485, LoRaWAN
- Replaceable Batteries and detachable Temperature Sensors.

Compatible with

Dimensions



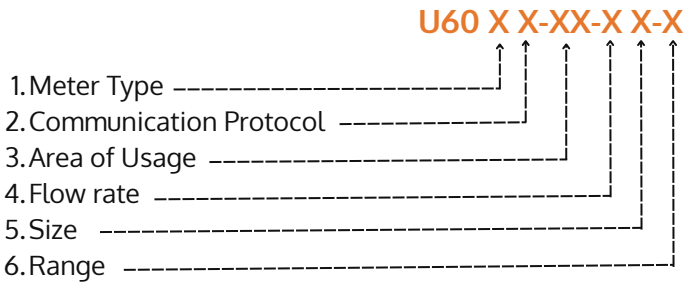
Communication Modes

Nominal Diameter (mm)	DN15	DN20	DN25	DN32	DN40
A without Connections	G¾B	G1B	G1¼B	G1 ½ B	G2B
B with Connections	R½B	R¾B	R1B	R1 ¼ B	R1 ½ B
L (mm)	147	147	147	147	147
L1 (mm)	110	130	160	180	200
H (mm)	110	115	120	125	135
W (mm)	94	94	94	94	94
S Connection Length (mm)	45	51	59	60	62

Technical Parameters

Performance		Parameters							
Accuracy		Class 2							
Flow Sensor	Nominal Diameter (mm)	DN15		DN20		DN25		DN32	DN40
	Range Ratio	100		100		100		100	100
	Common Flow q_p (m^3/h)	1	1.5	1.5	2.5	2.5	3.5	6	10
	Minimum Flow q_i (m^3/h)	0.01	0.015	0.015	0.025	0.025	0.035	0.06	0.1
	Maximum Flow q_s (m^3/h)	3	3	5	5	7	7	12	20
Temperature Sensor	Temperature Sensor Type	Pt1000, DIN/IEC751B - Detachable							
	Temperature Range (°C)	2 ~ 105							
	Temperature Difference Range (K)	2 ~ 95							
	Initial Temperature Difference (°C)	z							
Max Permissible Working Pressure (MPa)		1.6							
Protection Level		IP66 / IP68, the default is IP66 (IP68 is proposed when ordering)							
Power Supply		3.6V lithium battery, one battery can work continuously for more than 12 years & replaceable							
Mechanical Installation Level		M1							
Environmental Class		Class A / B							
Values Displayed		LCD, 10 digits + prompt; Heat quantity (kW·h or MJ), Thermal power (kW), Instantaneous flowrate (m^3/h), Cumulative flowrate(m^3), Supply water temperature (°C), Return water temperature (°C), Temperature difference (K), Cumulative effective running time (h), Date (year/month/day), Time (hour/minute/second)							
Display Resolution		Heat quantity 0.1kW·h or 1MJ, Cumulative flowrate 0.001m^3; Instantaneous flowrate: 0.001 m^3/h; Temperature 0.01°C; Temperature difference 0.01K							
Data Communication	Optical Interface	Baud rate 2400bps, even parity, EN13757 protocol							
	Wireless Interface	W MBus and LoRawan							
	M-Bus/RS-485	Baud rate: 2400bps, 4800bps, 9600bps optional, the default is 2400bps; Transmission distance < 1200m; EN13757 protocol, Modbus protocol are optional, the default is EN13757 protocol							
Data Storage (EEPROM)	M-Bus/RS-485	Monthly and daily heat quantity, cumulative flowrate and corresponding time and the max. heat power of the current month/day can be stored. Latest 24 month's data can be stored.							
Storage Temperature (°C)		-25 ~ +55							
Pressure Loss (kPa)		< 25							
Cable Length of Temperature Sensor (m)		>1.3							
Meter Mounting Position		On supply/return water pipe (selectable)							

Order Code



Meter Type	Order Code
Ultrasonic	1

Protocol	Order Code
M bus	1
W Mbus	2
LoraWAN	3

Area of Usage	Order Code
Domestic - Hot	DH
Domestic - Cooling	DC

Flowrate m3/h	1.5	2.5	3.5	6	10
Order Code	A	B	C	D	E

Size DN	15	20	25	32	40
Order Code	A	B	C	D	E

Range	Order Code
50	R1
100	R2

For Example:

Order ID U6011-DC-BB-R2 stands for BTU meter ultrasonic type, Mbus interface, Domestic Cooling Water, Flow rate 2.5 m³/h, Size DN 20, Range 100.

Manufactured by: ConnectME Manufacturing LLC, UAE, Dubai.
Web: https://connectme.biz/