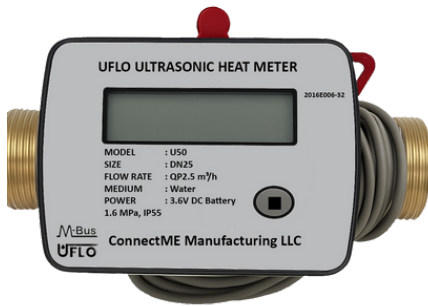


## U50 COMPACT BTU METER

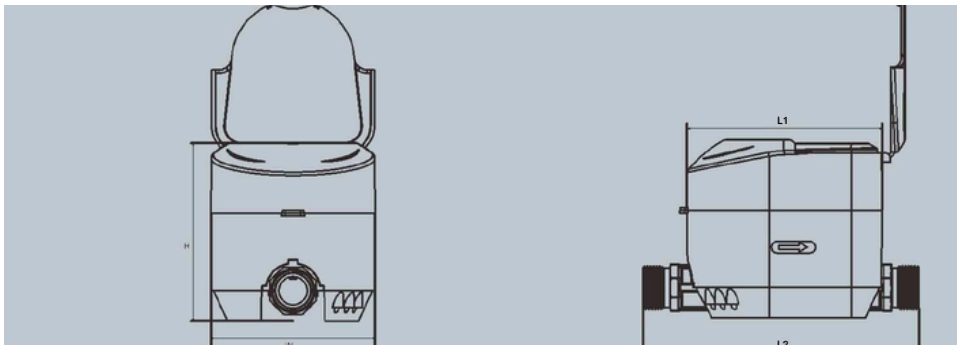


### Model-U50 Series

#### 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.
- Equipped with data remote transmitting module. remote data transmitting and management is available.
- 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 & NB-IOT.

#### DIMENSIONS



Diameter(mm)		DN15	DN20	DN25	DN32	DN40
Dimensions	Length L1 (mm)	105	105	105	105	105
	Length L2 (mm)	110	130	160	180	200
	Width W (mm)	88	88	88	88	88
	Height H (mm)	100	94	96	106	113
Port Size	Thread L (mm)	10	12	12	13	13
	Thread type	G3/4B	G1B	G1 1/4 B	G1 1/2 B	G2B
Pipe Fitting	Thread type	R1/2	R3/4	R1	R1 1/4	R1 1/2
	Thread L (mm)	15	16	18	20	22
	Fitting L (mm)	43	50	58	58	59

#### COMMUNICATION MODES



# U50 COMPACT BTU METER



## ORDER CODE

U50 X X-XX-X X-X

1- Meter Type

2-Communication Protocol

3-Area of Usage

4-Flow rate

5-Size

6- Range

Meter Type	Order Code
Ultrasonic	1

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

Protocol	Order Code
No protocol	0
M bus	1
W Mbus	2
LoraWAN	3
Modbus	4
Pulse output	5
NB-IoT	6

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
200	R3

For Example:

Order ID U5011-DC-BB-R2 stands for BTU meter ultrasonic type, Mbus interface, Domestic Cooling Water, Flow rate 2.5M3/h, Size DN 20, Range 100.

## TECHNICAL PARAMETERS

Parameter	DATA				
Diameter	DN15	DN20	DN25	DN32	DN40
R value	R100 / R50 (This table based on R100)				
Qp (m3/h)	1.5	2.5	3.5	6	10
Qmax (m3/h)	3	5	7	12	20
Qmin (m3/h)	0.015	0.025	0.035	0.006	0.010
Range	Temperature (°C)	4 ~ 95			
	Temperature difference				
	Range(°C)	2 ~ 75			
	Pressure (Mpa)	PN16			
	Pressure loss (Mpa)	≤0.025			
	Accuracy	class 2			
	Temperature resolution (°C)	0.01			
	Environment temperature (°C)	-20 ~ 55			
	Battery life	10 years			
	Protection	IP65 / IP68			
Communication	IR interface	Baud rate: 2400bps, protocol CJ188			
	Mbus, RS485	Mbus: EN13757, RS485: Modbus.			
	Wireless	Lorawan, NB-IoT, wireless Mbus			
	Tube material	Brass, stainless steel			
	EEPROM	Total flow of max 36months, alarm clock, cause, or max 2 years			
	Mounting	Inlet			

