

HEAT METER

CATALOGUE

- Ultrasonic
- Mechanical





About Us

Ningbo Well Energy Technology Co., Ltd manufacture over 20 years water meters & heat meters, and integrated solution provider. Headquartered in Ningbo, the company operates a full-cycle R&D system, advanced production lines, and independent labs with an annual production capacity of 1.8 million units.

Leveraging decades of expertise, Wellmeter delivers comprehensive ultrasonic, mechanical and modular metering products for residential, commercial, agricultural, and industrial applications worldwide, serving over 60 countries with proven project experience.

As a core supplier in smart metering management, Wellmeter enables utilities to achieve remote monitoring and intelligent control via M-BUS, RS-485, LoRaWAN, LoRa, NB-IoT, Pulse output and 4G. The company also exports complete technologies and equipment to support partners in localizing smart meter production.

Mission: Building long-term partnerships globally through premium products and services.





Advantage

Extensive Expertise



We deliver smart meter & meter module enclosures custom-designed for your PCB layout. Our solutions precisely accommodate component placement and board dimensions, ensuring seamless integration.

Quality Assurance



Robust Manufacturing Capabilities: State-of-the-art facilities, scalable production capacity, strict quality control (ISO certified).

Customization & Flexibility



Tailored Scalable Solutions: Tailor-made solutions adapted to your exact specifications and brand identity.

One-stop Service



End-to-End Solutions: Fully integrated services from concept & design to manufacturing, testing, and logistics.



Global Network

60+

Water Utilities

300+

Clients

1000000+

Smart Meters Installed



ULTRASONIC HEAT METER

ULTA-15~40



The ultrasonic heat meter measures the flow volume and displays the heating or cooling energy released or absorbed by water flow when passing through the pipeline.

The temperature range is 4~95°C.

Measurement unit: Kwh,Gcal,GJ.

Communication Interface choice:

1. M-BUS
2. RS-485
3. Pulse output
4. LoRa/LoRaWAN(EU868,RU868,IN865,US915 and customized)
5. Water Meter Impulse output, connects Heat Meter, M-BUS/ RS-485 output
6. NB-IoT

Features:

1. Lithium battery life: 10 years
2. Archive: 38 Months
3. Installation choice: Water supply pipeline or Water return pipeline
4. Installation: Horizontal/ Vertical
5. Accuracy: Class 2, meets EN1434
6. Top counter: Detachable
7. Measuring range ($q_s/q_i = 100:1$)
8. Temperature sensor: PT 1000
9. Environment standard Class: A
10. Min. temperature difference: 3°C
11. Water pressure: $\leq 1.6\text{Mpa}$

ULTRASONIC HEAT METER

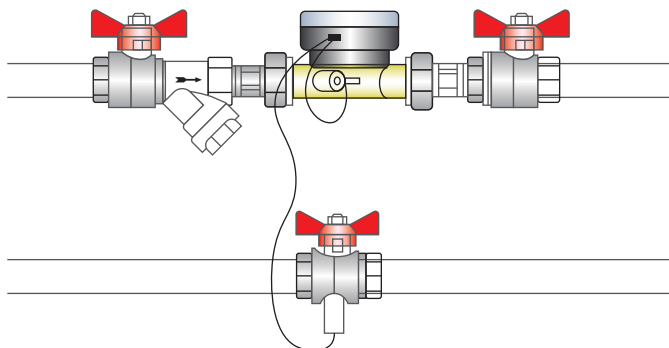
ULTA-15~40

Models and Specifications

Model	Qn(m³/h)	Length(mm)	DN(mm)	Sensor length	Display	Communication interface	Class
ULTA-15-0.6	0.6	110	15	1.5m	Kwh, Gcal, GJ	1.M-BUS 2.RS-485 3.Pulse output 4. LoRa/LoRaWAN 5.Water Meter Impulse output, connects Heat Meter, M-BUS/ RS-485 output 6.NB-IoT	2
ULTA-15-1.5	1.5	110	15	1.5m	Kwh, Gcal, GJ		2
ULTA-20	2.5	130	20	1.5m	Kwh, Gcal, GJ		2
ULTA-25	3.5	160	25	1.5m	Kwh, Gcal, GJ		2
ULTA-32	6	180	32	1.5m	Kwh, Gcal, GJ		2
ULTA-40	10	200	40	1.5m	Kwh, Gcal, GJ		2

Main Technical Parameters:

Normal DN	mm	15	15	20	25	32	40
Qn	m³/h	0.6	1.5	2.5	3.5	6	10
Qmax	m³/h	1.2	3	5	7	12	20
Qmin	m³/h	0.012	0.03	0.05	0.07	0.12	0.2
Body thread	----	G¾"B	G¾"B	G1"B	G1¼"B	G1½"B	G2"B
Connection thread	----	½"	½"	¾"	1"	1¼"	1½"
Height	mm	85	85	95	105	105	115
Length	mm	110	110	130	160	180	200
Pressure loss (KPa/Qp)		4	18	11	20	22	22



ULTRASONIC HEAT METER

ULTC-15~20



The ultrasonic heat meter measures the flow volume and displays the heating or cooling energy released or absorbed by water flow when passing through the pipeline

The temperature range is 4~95°C.

Measurement unit: Kwh, Gcal, GJ.

Communication Interface choice:

1. M-BUS
2. RS-485
3. Pulse output

Advantage: Using the touch control technique, instead of using a machine type key, to have more dependable and easily attain the function of keystroke

Features:

1. Lithium battery life: 10 years
2. Archive: 38 Months
3. Installation choice: Water supply pipeline or Water return pipeline
4. Installation: Horizontal/ Vertical
5. Accuracy: Class 2, meets EN1434
6. Top counter: Detachable
7. Measuring range ($q_s/q_i = 100:1$)
8. Temperature sensor: PT 1000
9. Environment standard Class: A
10. Min. temperature difference: 3°C
11. Water pressure: $\leq 1.6\text{Mpa}$

ULTRASONIC HEAT METER

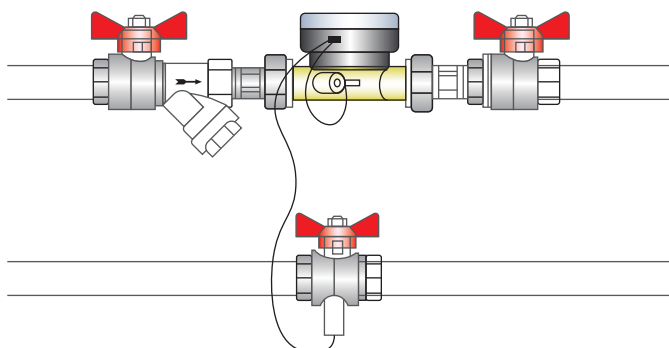
ULTC-15~20

Models and Specifications

Model	Qn(m³/h)	Length(mm)	DN(mm)	Sensor length	Display	Communication interface	Class
ULTC-15-0.6	0.6	110	15	1.5m	Kwh, Gcal, GJ	M-BUS, RS-485, Pulse output	2
ULTC-15-1.5	1.5	110	15	1.5m	Kwh, Gcal, GJ	M-BUS, RS-485, Pulse output	2
ULTC-20-2.5	2.5	130	20	1.5m	Kwh, Gcal, GJ	M-BUS, RS-485, Pulse output	2

Main Technical Parameters:

Normal DN	mm	15	15	20
Qn	m³/h	0.6	1.5	2.5
Qmax	m³/h	1.2	3	5
Qmin	m³/h	0.012	0.03	0.05
Body thread	----	G¾"B	G¾"B	G1"B
Connection thread	----	½"	½"	¾"
Height	mm	80	80	90
Length	mm	110	110	130
Pressure loss (KPa/Qp)		4	18	11



ULTRASONIC HEAT METER

ULTE-15~20



The ultrasonic heat meter measures the flow volume and displays the heating or cooling energy released or absorbed by water flow when passing through the pipeline.

The temperature range is 4~95°C.

Measurement unit: Kwh, Gcal, GJ.

Communication Interface choice:

1. M-BUS
2. RS-485
3. Pulse output
4. LoRa/LoRaWAN(EU868,RU868,IN865,US915 and customized)
5. Water Meter Impulse output, connects Heat Meter, M-BUS/ RS-485 output
6. NB-IoT

Features:

1. Lithium battery life: 10 years
2. Archive: 38 Months
3. Installation choice: Water supply pipeline or Water return pipeline
4. Installation: Horizontal/ Vertical
5. Accuracy: Class 2, meets EN1434
6. Top counter: Detachable
7. Measuring range ($q_s/q_i = 100:1$)
8. Temperature sensor: PT 1000
9. Environment standard Class: A
10. Min. temperature difference: 3°C
11. Water pressure: $\leq 1.6\text{Mpa}$

ULTRASONIC HEAT METER

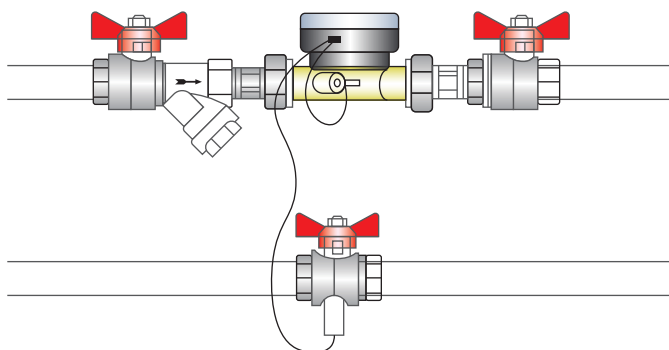
ULTE-15~20

Models and Specifications

Model	Qn(m³/h)	Length(mm)	DN(mm)	Sensor length	Display	Communication interface	Class
ULTE-15-0.6	0.6	110	15	1.5m	Kwh, Gcal, GJ	1.M-BUS 2.RS-485 3.Pulse output 4. LoRa/ LoRaWAN 5.Water Meter Impulse output, connects Heat Meter, M-BUS/RS-485 output 6.NB-IoT	2
ULTE-15-1.5	1.5	110	15	1.5m	Kwh, Gcal, GJ		2
ULTE-20-2.5	2.5	130	20	1.5m	Kwh, Gcal, GJ		2

Main Technical Parameters:

Normal DN	mm	15	15	20
Qn	m³/h	0.6	1.5	2.5
Qmax	m³/h	1.2	3	5
Qmin	m³/h	0.012	0.03	0.05
Body thread	----	G¾"B	G¾"B	G1"B
Connection thread	----	½"	½"	¾"
Height	mm	85	85	95
Length	mm	110	110	130
Pressure loss (KPa/Qp)		4	18	11



VALVE CONTROL HEAT METER

ULTG-15~25



The valve control ultrasonic heat meter measures the flow volume and displays the heating or cooling energy released or absorbed by water flow when passing through the pipeline.

Valve control ultrasonic heat meter.

The temperature range is 4~95°C.

Measurement unit: Kwh, Gcal, GJ.

Communication Interface choice:

1. M-BUS
2. RS-485
3. LoRa/LoRaWAN(EU868,RU868,IN865,US915 and customized)

Features:

1. Lithium battery life: 10 years
2. Archive: 38 Months
3. Installation choice: Water supply pipeline or Water return pipeline
4. Installation: Horizontal/ Vertical
5. Accuracy: Class 2, meets EN1434
6. Measuring range (qs/qi =100:1)
7. Temperature sensor: PT 1000
8. Environment standard Class: A
9. Temperature range is 4~95°C
10. Temperature difference: 3~70K
11. Water pressure: ≤1.6Mpa

VALVE CONTROL HEAT METER

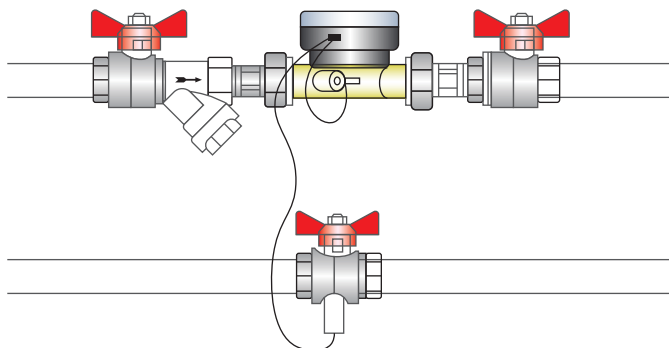
ULTG-15~25

Models and Specifications

Model	Qn(m³/h)	Length(mm)	DN(mm)	Sensor length	Display	Communication interface	Class
ULTG-15	1.5	165	15	1.5m	Kwh, Gcal, GJ	1.M-BUS 2.RS-485 3.LoRa/ LoRaWAN	2
ULTG-20	2.5	195	20	1.5m	Kwh, Gcal, GJ		2
ULTG-25	3.5	225	25	1.5m	Kwh, Gcal, GJ		2

Main Technical Parameters:

Normal DN	mm	15	20	25
Qn	m³/h	1.5	2.5	3.5
Qmax	m³/h	3	5	7
Qmin	m³/h	0.03	0.05	0.07
Body thread	----	G¾"B	G1"B	G1¼"B
Connection thread	----	½"	¾"	1"
Height	mm	105	110	115
Length	mm	100	100	100
Pressure loss (KPa/Qp)		18	11	20



ULTRASONIC HEAT METER

ULTA-50~500



The ultrasonic heat meter measures the flow volume and displays the heating or cooling energy released or absorbed by water flow when passing through the pipeline.

Measure the heating energy/ Measure the cooling energy.

The temperature range is 4~95°C.

Measurement unit: Kwh, Gcal, GJ.

Communication Interface choice:

1. M-BUS
2. RS-485
3. Pulse output
4. LoRa/LoRaWAN(EU868,RU868,IN865,US915 and customized)
5. NB-IoT

Features:

1. Lithium battery life: 10 years
2. Archive: 38 Months
3. Installation choice: Water supply pipeline or Water return pipeline
4. Installation: Horizontal/ Vertical
5. Accuracy: Class 2, meets EN1434
6. Measuring range (q_s/q_i =50:1)
8. Temperature sensor: PT 1000
9. Environment standard Class: B
10. Min. temperature difference: 3°C
11. Water pressure: ≤ 1.6 Mpa

ULTRASONIC HEAT METER

ULTA-50~500

Models and Specifications

Diameter(mm)	Qn(m³/h)	Qmin(m³/h)	Qmax(m³/h)	Length(mm)
DN50	15	0.6	30	200
DN65	25	1	50	200
DN80	40	1.6	80	225
DN100	60	2.4	120	250
DN125	100	4	200	250
DN150	150	6	300	300
DN200	250	10	500	350
DN250	400	16	800	450
DN300	600	24	1200	500
DN350	750	30	1500	500
DN400	1000	40	2000	500
DN450	1200	48	2400	500
DN500	1500	60	3000	500
Range Ratio	R25			
Measurement Accuracy	EN1434、CJ128-2007 Class2			
Connection	Flange			
Pressure Loss	≤20KPa			
Pressure Level	≤1.6MPa			
Temperature Sensor	3m standard two lines PT1000 Temperature Sensor (cable length could be changed)			
Data Storage	Continuous store of 38 months record			
Power-off Protection	After power-off, meter could save all the record of before flow rate and the corresponding time, after power back, it recovery measure function automatically, and ensure the time continuation			
Communication Mode	Wired: Mbus, RS485, Pulse Output Wireless: LoRaWAN, NB-IoT			
Power Supply	ER18505 Lithium battery (waterproof)			
Protection Class	IP68			
Environmental Class	Class B			
Temperature Range	(4~95)°C			
Temperature Difference	(3~70)K			
Installation Way	Inflow or Return flow installation (Default is Inflow installation, for return flow need to indicate when ordering)			
Battery Life	10 years			
Display	LCD display			

MECHANICAL HEAT METER

SJMA-15~20



The mechanical heat meter use advanced nonmagnetic technology, measures the flow volume and display the heat energy released or absorbed by water flow when passing through the heat exchange system.

The temperature range is 4~95°C.

Measurement unit: Kwh, Gcal, GJ.

Communication Interface choice:

1. M-BUS
2. RS-485
3. Pulse output

Features:

1. Lithium battery life: 10 years
2. Archive: 38 Months
3. Installation choice: Water supply pipeline or Water return pipeline
4. Installation: Horizontal/ Vertical
5. Accuracy: Class 2, meets EN1434
6. Top counter rotate: 360 degree
7. Measuring range ($q_s/q_i = 100:1$)
8. Temperature sensor: PT 1000
9. Environment standard Class: A
10. Min. temperature difference: 3°C
11. Water pressure: $\leq 1.6\text{Mpa}$

MECHANICAL HEAT METER

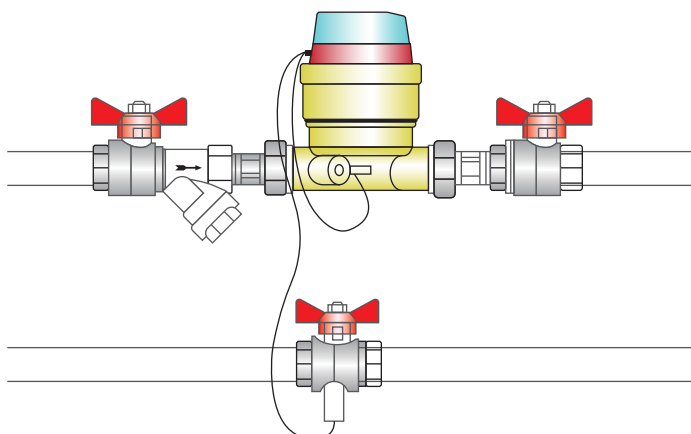
SJMA-15~20

Models and Specifications

Model	Qn(m³/h)	Length(mm)	DN(mm)	Sensor length	Display	Communication interface	Class
SJMA-15-0.6	0.6	110	15	1.5m	Kwh, Gcal, GJ	M-BUS, RS-485, Pulse output	2
SJMA-15-1.5	1.5	110	15	1.5m	Kwh, Gcal, GJ	M-BUS, RS-485, Pulse output	2
SJMA-20-2.5	2.5	130	20	1.5m	Kwh, Gcal, GJ	M-BUS, RS-485, Pulse output	2

Main Technical Parameters:

Normal DN	mm	15	15	20
Qn	m³/h	0.6	1.5	2.5
Qmax	m³/h	1.2	3	5
Qmin	m³/h	0.012	0.03	0.05
Body thread	----	G¾"B	G¾"B	G1"B
Connection thread	----	½"	½"	¾"
Height	mm	90	90	90
Length	mm	110	110	130
Pressure loss (KPa/Qp)		8	21	23



MECHANICAL HEAT METER

SJMB-15~20



The Mechanical heat meter use advanced nonmagnetic technology, measures the flow volume and display the heat energy released or absorbed by water flow when passing through the heat exchange system.

The temperature range is 4~95°C.

Measurement unit: Kwh, Gcal, GJ.

Communication interface:

1. M-BUS
2. RS-485
3. Pulse output
4. LoRa/LoRaWAN(EU868,RU868,IN865,US915 and customized)
5. Water Meter Impulse output, connects Heat Meter, M-BUS/RS-485 output. Maximum connection of water meter: 4pcs.

Features:

1. Lithium battery life span: 10 years
2. Archive: 38 Months
3. Installation choice: Water supply pipeline or Water return pipeline
4. Installation: Horizontal/ Vertical
5. Accuracy: Class 2, meets EN1434
6. Top counter: Detachable
7. Measuring range ($q_s/q_i = 100:1$)
8. Temperature sensor: PT 1000
9. Environment standard Class: A
10. Min. temperature difference: 3°C
11. Water pressure: $\leq 1.6\text{Mpa}$

MECHANICAL HEAT METER

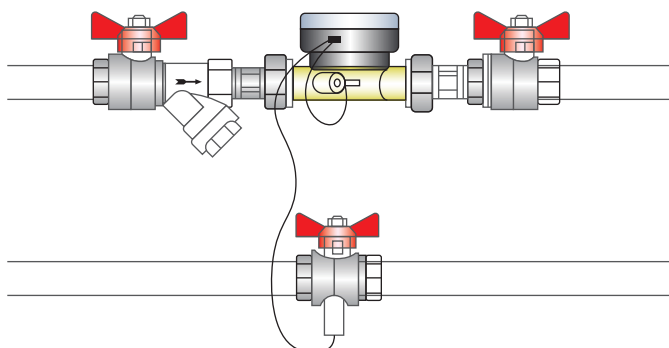
SJMB-15~20

Models and Specifications

Model	Qn(m³/h)	Length(mm)	DN(mm)	Sensor length	Display	Communication interface	Class
SJMB-15-0.6	0.6	110	15	1.5m	Kwh, Gcal, GJ	1.M-BUS 2.RS-485 3.Pulse output 4. LoRa/ LoRaWAN 5.Water Meter Impulse output, connects Heat Meter, M-BUS/ RS-485 output	2
SJMB-15-1.5	1.5	110	15	1.5m	Kwh, Gcal, GJ		2
SJMB-20-2.5	2.5	130	20	1.5m	Kwh, Gcal, GJ		2

Main Technical Parameters:

Normal DN	mm	15	15	20
Qn	m³/h	0.6	1.5	2.5
Qmax	m³/h	1.2	3	5
Qmin	m³/h	0.012	0.03	0.05
Body thread	----	G¾"B	G¾"B	G1"B
Connection thread	----	½"	½"	¾"
Height	mm	105	105	105
Length	mm	110	110	130
Pressure loss (KPa/Qp)		8	21	23





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