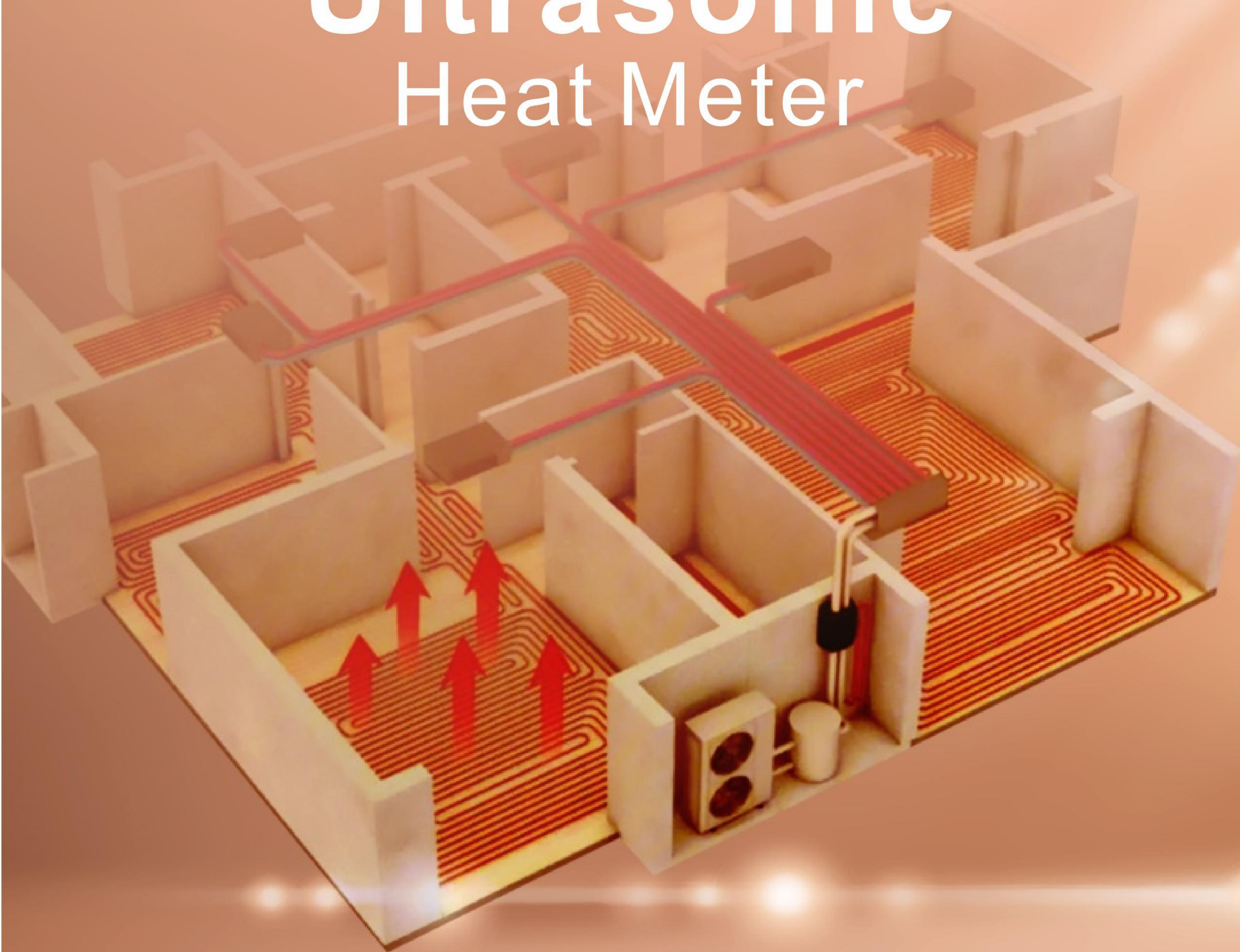


Ultrasonic Heat Meter



To provide you with the best quality products



OLKRC-01 Ultrasonic Heat Meter

Product Features

- Product application in heating metering
- Pipe material: copper
- Ultrasonic metering, no mechanical wear and tear, with excellent reliability, stability
- Accuracy level: Class 2
- Range ratio: R50/R100
- Temperature range: (4~95)°C
- Temperature range: (2~90)K
- Compliance with standards: GB/T 32224; EN1434
- Communication interface diversity: wMBUS/RS485/Pulse/LoRawan/Zigbee/NB-IoT
- Replaceable battery design

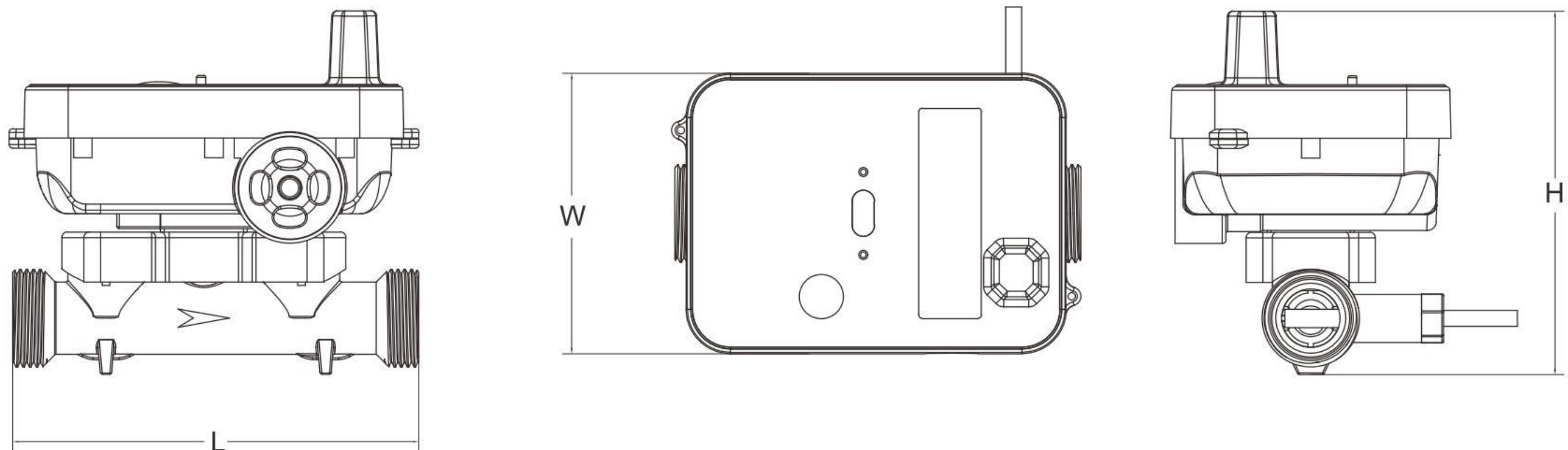
Technical Paprameter

Performance	Parameter			
Diameter	Min. Flow	Norm. Flow	Max. Flow	Length
	$q_{min}(m^3/h)$	$q_p(m^3/h)$	$q_{max}(m^3/h)$	mm
DN15	0.012	0.6	1.2	110
	0.015	1.5	3	
	0.03	1.5	3	
DN20	0.025	2.5	5	130
	0.05	2.5	5	
DN25	0.035	3.5	7	160
	0.07	3.5	7	
DN32	0.12	6	12	180
DN40	0.2	10	20	200
Accuracy	Class 2			
Connection type	DN15-DN40 is thread connection			
Pressure loss	$\leq 0.02MPa$			
Max. working pressure	1.6MPa			
Temperature sensor	1.5m standard two-wire PT1000 paired temperature sensor (wire length can be reserved)			
Data storage	24 months history data			
Transmission	wMBUS/RS485/Pulse/LoRawan/Zigbee/NB-IoT			
Power	Built-in Lithium Battery			
Protection Class	IP65/IP67			
Environmental	Class A			
Temperature range	(4~95)°C			
Temperature difference range	(2~90)K			
Installation method	Water inlet or return (default water inlet)			
Installation	Horizontal or Vertical			
Battery Life	Life Period ≥ 6 years			
Display	8-bit LCD display			
Anti-magnetic interference	Distribution by a magnetic field with an intensity of less than 100 kA/m, no effective to the metering and remote transmission characteristics of the heat meter			

External Dimensions

Nominal Diameter	DN15	DN20	DN25	DN32	DN40
Thread	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B	G1 $\frac{1}{2}$ B	G2B
L(mm)	110	130	160	180	200
W(mm)	76	76	76	85	85
H(mm)	98.52	101.17	108.75	109	113

Customised threads available





OLKRC-02

Dynamic Balance Type Ultrasonic Heat / Cooling Meter

various valve adjustment modes are available:

- 1.Set instantaneous flow regulation
- 2.Set instantaneous power regulation
- 3.Set return water temperature regulation
- 4.Set the average temperature of the inlet and return water regulation
- 5.Adjustment of the valve opening according to the acquired room temperature
- 6.System strength set open degree, forced open/close valve

Product Features

- Products are applied to heating metering, multi-mode heating balance regulation and control, remote control.
- Consistent with conventional heat meters and directly replaceable.
- Ultrasonic metering, no mechanical wear and tear, longer service life.
- Accuracy level: Level 2
- Range ratio: R50/100/125/160
- Temperature range: (4~95)°C
- Temperature difference range: (2~90)K
- Conformity: EN1434
- Communication interface: Optical/M-BUS/RS-485/LoRaWAN/NB-IoT/Zigbee/wMBUS
- Replaceable battery design

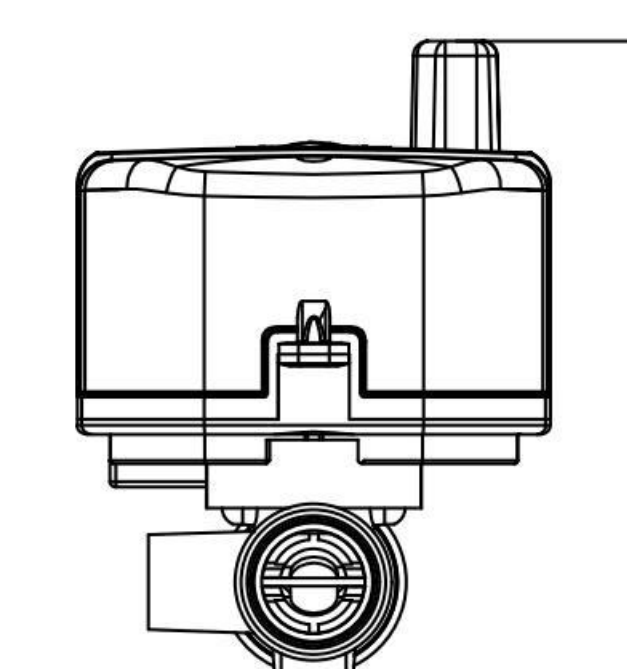
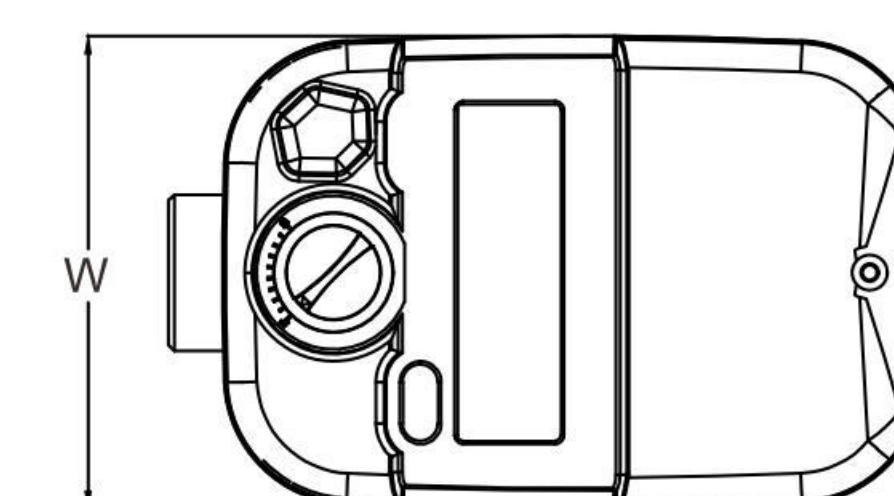
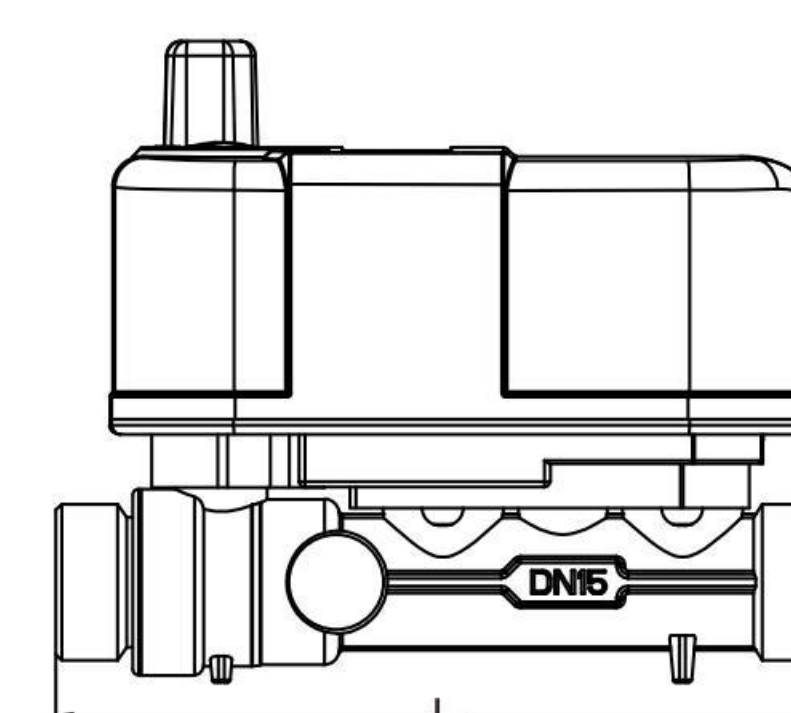
Technical Parameter

Performance	Parameter			
Diameter	Min. Flow	Norm. Flow	Max. Flow	Length
	$q_{min}(m^3/h)$	$q_p(m^3/h)$	$q_{max}(m^3/h)$	mm
DN15	0.012	0.6	1.2	110
	0.015	1.5	3	
	0.03	1.5	3	
DN20	0.025	2.5	5	130
	0.05	2.5	5	
DN25	0.035	3.5	7	160
	0.07	3.5	7	
DN32	0.12	6	12	180
DN40	0.2	10	20	200
Accuracy	Class 2			
Connection type	DN15-DN40 is thread connection			
Pressure loss	$\leq 0.02MPa$			
Max. working pressure	1.6MPa			
Temperature sensor	1.5m standard two-wire PT1000 paired temperature sensor (wire length can be reserved)			
Data storage	24 months history data			
Transmission	wMBUS/RS485/Pulse/LoRawan/Zigbee/NB-IoT			
Power	Built-in Lithium Battery			
Protection Class	IP65/IP67			
Environmental	Class A			
Temperature range	(4~95)°C			
Temperature difference range	(2~90)K			
Installation method	Water inlet or return (default water inlet)			
Installation	Horizontal or Vertical			
Battery Life	Life Period ≥ 6 years			
Display	8-bit LCD display			
Anti-magnetic interference	Distribution by a magnetic field with an intensity of less than 100 kA/m, no effective to the metering and remote transmission characteristics of the heat meter			

External Dimensions

Nominal Diameter	DN15	DN20	DN25
Thread	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B
L(mm)	130	130	160
W(mm)	80	80	80
H(mm)	108.5	112.5	117.8

Customised threads available





OLKRC-03

Ultrasonic Heat Meter

Product Features

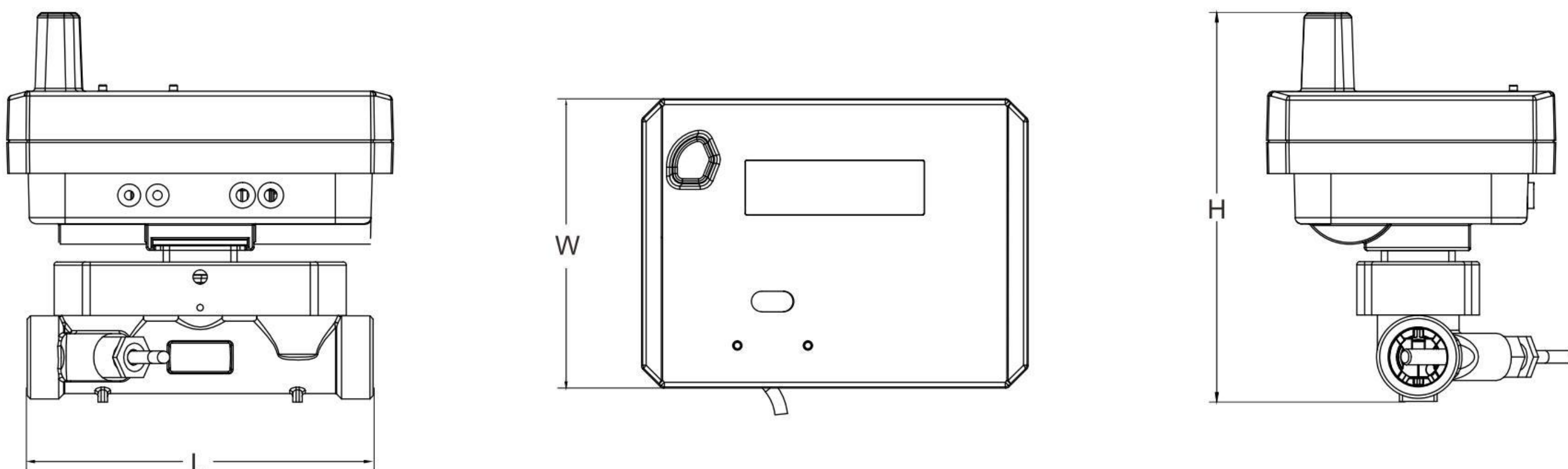
- Product application in heating metering
- Pipe material: copper
- Ultrasonic metering, no mechanical wear and tear, with excellent reliability, stability
- Accuracy level: Class 2
- Range ratio: R50/R100
- Temperature range: (4~95)°C
- Temperature range: (2~90)K
- Compliance with standards: GB/T 32224; EN1434
- Communication interface diversity: wMBUS/RS485/Pulse/4G/LoRawan/Zigbee/NB-IoT
- Replaceable battery design

Technical Paprameter

Performance	Parameter			
Diameter	Min. Flow	Norm. Flow	Max. Flow	Length
	q _{min} (m³/h)	q _p (m³/h)	q _{max} (m³/h)	mm
DN15	0.012	0.6	1.2	110
	0.015	1.5	3	
	0.03	1.5	3	
DN20	0.025	2.5	5	130
	0.05	2.5	5	
DN25	0.035	3.5	7	160
	0.07	3.5	7	
DN32	0.12	6	12	180
DN40	0.2	10	20	200
Accuracy	Class 2			
Connection type	DN15-DN40 is thread connection			
Pressure loss	≤0.02MPa			
Max. working pressure	1.6MPa			
Temperature sensor	1.5m standard two-wire PT1000 paired temperature sensor (wire length can be reserved)			
Data storage	24 months history data			
Transmission	wMBUS/RS485/Pulse/LoRawan/Zigbee/NB-IoT			
Power	Built-in Lithium Battery			
Protection Class	IP65/IP67			
Environmental	Class A			
Temperature range	(4~95)°C			
Temperature difference range	(2~90)K			
Installation method	Water inlet or return (default water inlet)			
Installation	Horizontal or Vertical			
Battery Life	Life Period ≥ 6 years			
Display	8-bit LCD display			
Anti-magnetic interference	Distribution by a magnetic field with an intensity of less than 100 kA/m, no effective to the metering and remote transmission characteristics of the heat meter			

External Dimensions

Nominal Diameter	DN15	DN20	DN25	Dn32	Dn40
Thread	G¾B	G1B	G1 ¼B	G1 ½B	G2B
L(mm)	110	130	160	180	200
W(mm)	95	95.5	99	109	113
H(mm)	85	85	85	85	85





OLKRC-04
Ultrasonic Heat Meter

Product Features

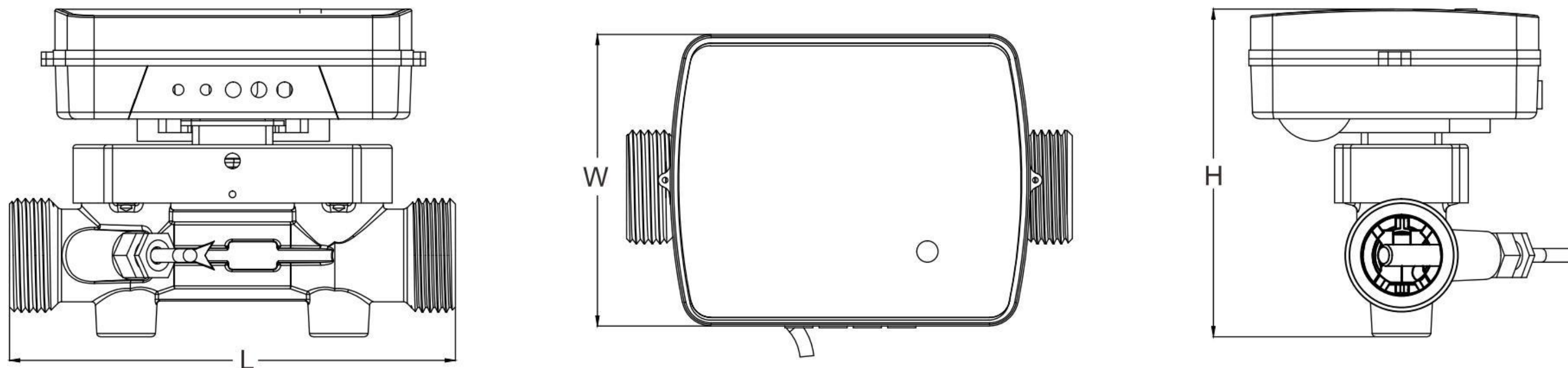
- Product application in heating metering
- Pipe material: copper
- Ultrasonic metering, no mechanical wear and tear, with excellent reliability, stability
- Accuracy level: Class 2
- Range ratio: R50/R100
- Temperature range: (4~95)°C
- Temperature range: (2~90)K
- Compliance with standards: GB/T 32224; EN1434
- Communication interface diversity: Optical/M-BUS/RS-485/Pulse

Technical Paprameter

Performance	Parameter			
Diameter	Min. Flow	Norm. Flow	Max. Flow	Length
	$q_{min}(m^3/h)$	$q_p(m^3/h)$	$q_{max}(m^3/h)$	mm
DN15	0.012	0.6	1.2	110
	0.015	1.5	3	
	0.03	1.5	3	
DN20	0.025	2.5	5	130
	0.05	2.5	5	
DN25	0.035	3.5	7	160
	0.07	3.5	7	
DN32	0.12	6	12	180
DN40	0.2	10	20	200
Accuracy	Class 2			
Connection type	DN15-DN40 is thread connection			
Pressure loss	≤0.02MPa			
Max. working pressure	1.6MPa			
Temperature sensor	1.5m standard two-wire PT1000 paired temperature sensor (wire length can be reserved)			
Data storage	24 months history data			
Transmission	Optical/M-BUS/RS-485/Pulse			
Power	Built-in Lithium Battery			
Protection Class	IP65/IP67			
Environmental	Class A			
Temperature range	(4~95)°C			
Temperature difference range	(2~90)K			
Installation method	Water inlet or return (default water inlet)			
Installation	Horizontal or Vertical			
Battery Life	Life Period ≥ 6 years			
Display	8-bit LCD display			
Anti-magnetic interference	Distribution by a magnetic field with an intensity of less than 100 kA/m, no effective to the metering and remote transmission characteristics of the heat meter			

External Dimensions

Nominal Diameter	DN15	DN20	DN25	Dn32	Dn40
Thread	G¾B	G1B	G1 ¼B	G1 ½B	G2B
L(mm)	110	130	160	180	200
W(mm)	95	95.5	99	109	113
H(mm)	85	85	85	85	85





Product Features

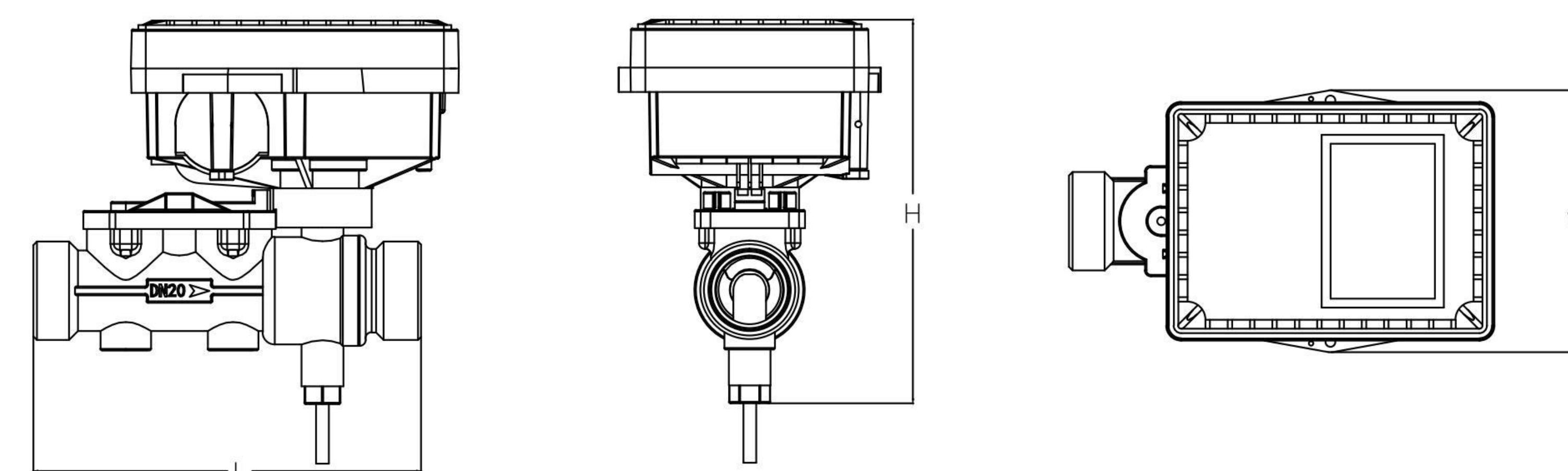
- Products are applied to heating metering, multi-mode heating balance regulation and control, remote control.
- Consistent with conventional heat meters and directly replaceable.
- Ultrasonic metering, no mechanical wear and tear, longer service life.
- Accuracy level: Level 2
- Range ratio: R50/100/125/160
- Temperature range: (4-95)°C
- Temperature difference range: (2~90)K
- Conformity: EN1434
- Communication interface: Optical/MBUS/RS-485/LoRaWAN/NB-IoT/Zigbee/wMBUS
- Replaceable battery design

Technical Parameter

Performance	Parameter			
Diameter	Min. Flow	Norm. Flow	Max. Flow	Length
	$q_{min}(m^3/h)$	$q_p(m^3/h)$	$q_{max}(m^3/h)$	mm
DN15	0.015	1.5	3	130
DN20	0.05	2.5	5	130
DN25	0.07	3.5	7	160
DN32	0.12	6	12	180
DN40	0.2	10	20	200
Accuracy	Class 2			
Connection type	Threaded connection			
Pressure loss	$\leq 0.02MPa$			
Max. working pressure	1.6MPa			
Temperature sensor	1.5m standard two-wire PT1000 paired temperature sensor (wire length can be reserved)			
Data storage	Continuous storage of the previous 24 months of history			
Communication	Optical/MBUS/RS-485/LoRaWAN/NB-IoT/Zigbee/wMBUS			
Power supply	3.6V Lithium battery/External DC24V			
Protection grade	IP65/IP67			
Environmental	Class A			
Temperature range	(4~95)°C			
Temperature difference range	(2~90)K			
Installation method	Water inlet or water return (default water inlet, water return installation should be specified when ordering)			
Installation position	Horizontal or vertical			
Battery Life	Use cycle ≥ 6 years			
Display	8-bit LCD liquid crystal display			
Anti-magnetic interference	When subjected to magnetic field interference with intensity not greater than 100KA/m, It should not affect the metering and remote transmission characteristics of the heat meter			

External Dimensions

Nominal Diameter	DN15	DN20	DN25
Thread	G½B	G1B	G¾B
L(mm)	110	130	150
W(mm)	85	85	85
H(mm)	107.8	110.3	113.3
Customised threads available			





OLKRC-06 Ultrasonic Heat Meter

Product Features

- Product application in heating metering
- Pipe material: ductile iron/stainless steel
- Ultrasonic metering, no mechanical wear, with excellent reliability, stability
- Accuracy level: Class 2
- Range ratio: R25/R50/R100
- Temperature range: (4~95)°C
- Temperature range: (2~90)K
- Compliance with standards: GB/T 32224; EN1434
- Communication interface diversity: M-BUS/RS485/Pulse/LoRaWAN/NB-IoT/Zigbee/wMBUS

Technical Paprameter

Performance	Parameter			
Diameter	Min. Flow	Norm. Flow	Max. Flow	Length
	$q_{min}(m^3/h)$	$q_p(m^3/h)$	$q_{max}(m^3/h)$	mm
DN50	0.3	15	30	200
DN65	0.5	25	50	200
DN80	0.8	40	80	225
DN100	1.2	60	120	250
DN125	2	100	200	250
DN150	3	150	300	300
DN200	5	250	500	350
DN250	8	400	800	450
DN300	12	600	1200	500
Accuracy	Class 2			
Connection type	Flange Connection			
Pressure loss	$\leq 0.02MPa$			
Max. working pressure	1.6MPa			
Temperature sensor	3m standard two-wire PT1000 paired temperature sensor (Wire length adjustable)			
Data storage	24 months history data			
Communication	M-BUS/RS485/Pulse/LoRaWAN/NB-IoT/Zigbee/wMBUS			
Power supply	3.6V Lithium battery/External DC24V			
Protection grade	IP68			
Environmental	Class B			
Temperature range	(4~95)°C			
Temperature difference range	(2~90)K			
Installation method	Water inlet or return (default water inlet)			
Installation	Large LCD monitor			
Battery Life	Use cycle ≥ 6 years			
Durability	Distribution by a magnetic field with an intensity of less than 100 kA/m, no effective to the metering and remotransmission characteristics of the heat meter			
Communication line wiring instructions	M-BUS wiring: black, white (no polarity), input voltageDC24~42VRS-485 wiring: red wire to vcc, blue wire to GND, yellow wire to A, green wire to B			

