

# 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 (qs/qi =50:1)
8. Temperature sensor: PT 1000
9. Environment standard Class: B
10. Min. temperature difference: 3°C
11. Water pressure:  $\leq 1.6$ Mpa

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### Models and Specifications

Diameter(mm)	Qn(m <sup>3</sup> /h)	Qmin(m <sup>3</sup> /h)	Qmax(m <sup>3</sup> /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			