

Household Ultrasonic BTU / Heat Meter [UBM250I]

DN15-DN40



Product Introduction

This CBRO UMB250I type ultrasonic wave heat meter is an instrument measuring and displaying heat released /absorbed by the heat carrying liquid in heat exchanging circuit. The unit of heat measurement is KW·h. It consists in three parts , namely flow sensor, temperature sensor and calculator.

Application and Warnings

The installation requirements of the heat meter

Before installation, check the pipelines in the cleansing system thoroughly and remove silk, hemp ,sand ,gravel and any other masses to avoid any flow hindrance.

- The flow meter should be installed in horizontal level, with the display window facing upward.
- The water flows in the direction accordance with the arrow mark
- The diameter of the front and the back pipes should fit the flow meter
- 10DN straight pipeline and 5DN straight line should be saved (DN is what we call the diameter of the heat meter)
- Must use the gasket and connecting pipeline specially designed and manufactured by our company.
- The sewage filter and the valve should be fixed at both ends of the flow meter for the convenience of filth removing, maintaining and replacing.
- After the installation ,seal between the connecting bolt of the capsule and the heat meter, between the temperature measuring ball valve and the platinum resistor.
- Best water inflow and outflow pipeline options for easy fixing.

The installation of temperature sensor

One temperature sensor with red tag is to be installed inside the heat measuring meter, the other sensor with blue tag is to be built inside the temperature measuring ball valve.

The lead wire of the temperature sensor is not allowed to be lengthen, shorten or changed casually.

Performance

Household mechanical heat meter bears the features of high accuracy, steady operation, long using life, no subjecting to inferior water and low maintaining cost .It can be widely used in concentrated or regional heat supply system or separate household measuring in central air condition system

Nominal Diameter		15	20	25	32	40
Dimension	L	110	130	130	180	200
	W	87	87	87	85	85
	H	1011	101	101	125	130
Max flow (m³/h)		3	5	7	12	20
Norm flow(m³/h)		1.5	2.5	3.5	6	10
Min flow(m³/h)		0.03	0.05	0.07	0.12	0.2
Max flow reading		999999.99(m ³)				
Max heat reading		99999999(KW·h)				
Power supply		3.6VDC / 24VDC (Optional)				
Battery life		>6 years (Lithium battery)				
Accuracy class		Class 2				
Communication mode		Infrared interface , M-BUS/RS485				
Press loss		≤ 0.025 Mpa (under normal flow)				
IP class		IP 68				
Temperature range		(0--95) °C				
Temperature difference range		(3--60) k				
Starting temperature difference		0.01k				
Temperature sensor		Pt 1000				
Ambient temperature		+5°C -- +55°C				
Ambient level		Level A				
Installation		Horizontal/ vertical installation				
Monitor		8 digits				
Length of temperature sensor		1.5m				
Working current		45uA				
Data storage		Store historical data up to last 24 months				