



Make It Easy



JOYR200F

Ultrasonic Heat Meter



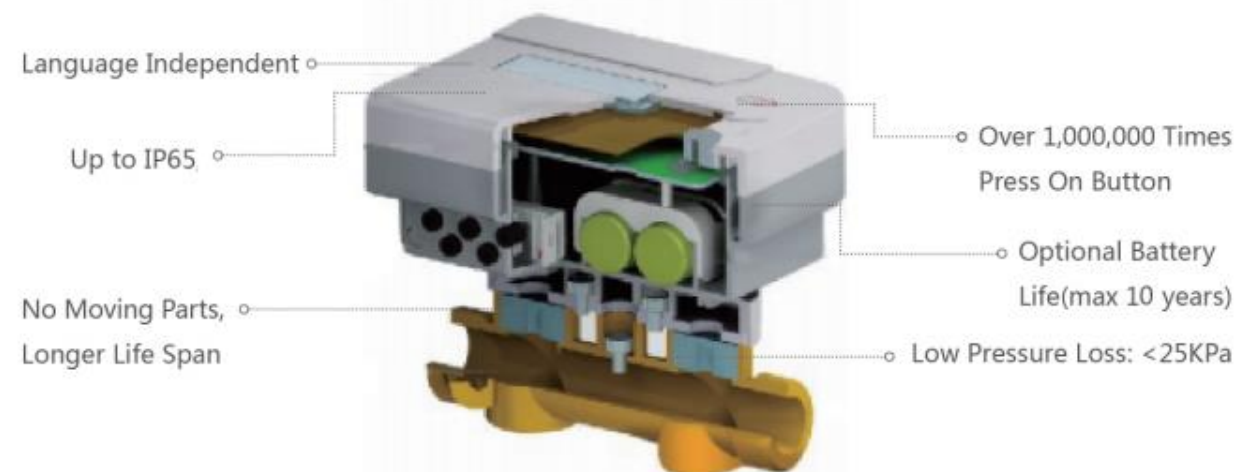
DESCRIPTION

JOYR200F Ultrasonic Heat Meter is an innovative heat meter with static flow sensor bases on the Ultrasonic measuring principle. JOYR200F is designed for measuring the heating consumption in which water is the heat bearing medium. It's an upgraded version of JOYR200.

It utilizes ultrasonic measuring methodology and microprocessor technology. All calculation and flow measuring circuits are designed on one single board, thus offering exceptional accuracy and reliability.

FEATURES

- ▶ Less abrasion
- ▶ Low power consumption
- ▶ Product life up to 10 years
- ▶ 36 months historical data
- ▶ Static flow sensor for continuously stable performance
- ▶ Automatic diagnosis of malfunction includes sensors fault, memory fault, etc.
- ▶ Optional batteries for different life span
- ▶ Vertical or horizontal installation
- ▶ Optional communication



TECHNICAL SPECIFICATIONS

Item	Parameter				
Diameter, mm	DN15	DN20	DN25	DN32	DN40
R(qp/qi)	R50, R100, R160 (optical)				
Accuracy	Class 2				
Permanent Flowrate, qp, m ³ /h	1.5	2.5	3.5	6.0	10
Max Flowrate qm, m ³ /h,R50	3.0	5.0	7.2	12.0	20.0
Min. Flowrate qi, m ³ /h, R50	0.03	0.05	0.07	0.12	0.2
Length, mm	110	130	160	180	200
Connection	Threaded joint				
Class of Pressure Loss at qp,kpa	≤25				
Max.Permissible Working Pressure	PN16				
Temperature Sensor	A pair of PT1000 platinum resistor				
Temperature Range	3~95 °C				
Temperature Difference Range	Heat:2~65K Cold:2-20K				
Display unit	kWh, MWh, GJ, Gcal (optical)				
Installation Direction	Horizontal or Vertical				
LCD	8-digit				
Power Supply	Battery DC 3.6V, lithium battery 6 or 10 years lifetime (Optional)				
Static Consumption	<20μA				
Date Storage	36 months history data				
Date interface	IrDA, MBus, RS485, Pulse input(3 ways), Pulse output(heat/volume)				
Environment Requirement	Protection Class	Up to IP65			
	Environmental class	E1, M1, A			
	Ambient Temp.	5~55 °C (Indoor and non-condensing)			
	Storage Temp.	-20~60 °C			
Standard Compliance	Meter Standard	EN1434, OIML R75, MID Directive(2014/32/EU)			
	Communication Standard	EN13757			
Remark	MID certificate under process				