))) JOYMETER

Make It Easy

JOYR200
Ultrasonic Heat Meter

DN20   IP65
q$_i$: 0.05m³/h   PS/PN 16
q$_p$: 2.5m³/h   Class 2,E1,M1,A
q$_s$: 5m³/h   Meter In Return
t0..3-65K   JOYR200-20
θ...4-95°C   Date: 2020
Joy Technology Co.,Ltd
No. 88, West Zhengyang Road, Jiaxing, Zhejiang, P.R.China

JOYMETER Ultrasonic Heat Meter

CE M20 1432
SK 13-021 MI-004
9806   1010

CE MID   KEMA   LoRa   STS ASSOCIATION   TÜV SÜD   dlms COSEM Compliant   OMS   CMIS   ISO ISO9001   M-Bus wireless
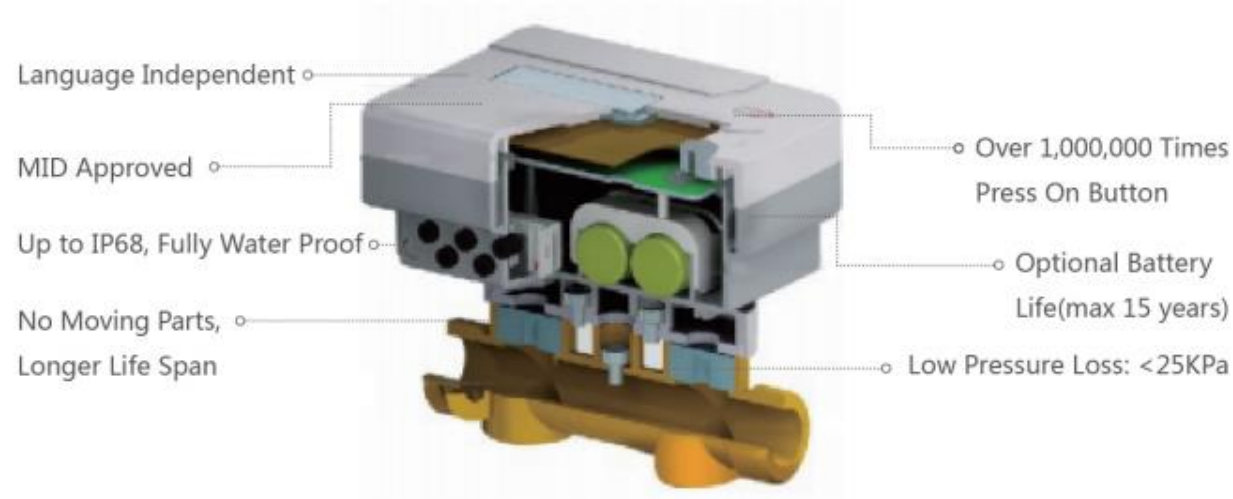
↗ DESCRIPTION

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

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

▶ 18 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)	50				
Accuracy	Class 2				
Permanent Flowrate, qp, m³/h	1.5	2.5	3.5	6.0	10
Max Flowrate qm, m³/h	3.0	5.0	7.2	12.0	20.0
Min. Flowrate qi, m³/h	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	4~95 ℃				
Temperature Difference Range	3~65K				
Display unit	kWh, MWh, GJ, Gcal (optical)				
Installation Direction	Horizontal or Vertical				
LCD	8-digit				
Power Supply	Battery DC 3.6V, lithium battery 6,10 years lifetime(Optional)				
Static Consumption	＜20μA				
Date Storage	18 months history data				
Date interface	IrDA, MBus, RS485, Pulse input(3 ways), Pulse output(heat/volume)				
Environment Requirement	Protection Class	Up to IP68			
	Environmental class	E1, M1, A			
	Ambient Temp.	5~55 ℃			
	Storage Temp.	-20~60 ℃			
Standard Compliance	Meter Standard	EN1434,OIML R75,MID Directive(2014/32/EU)			
	Communication Standard	EN13757			