

ULTRASONIC WATER METER

With RS485 MODBUS Communication

Description:



As water resources are becoming scarce, the demand for water measurement is increasing. The ultrasonic water meters are newly developed according to the national water meter standard GB/T 778-2007 and the international water meter standard ISO-4064-1:2005 and EN1434. At the same time, it has a battery-powered super-long service life of large and small caliber ultrasonic water meter series.

The water meter adopts the latest domestic advanced ultrasonic time difference measurement technology developed by the company, which has the remarkable characteristics of high accuracy, ultra-low power consumption, wide range ratio, stability and reliability. Integration scheme is adopted in the structure. IP68 protection level can be achieved through good sealing, even if the instrument chamber water intake can ensure long-term reliable work.

Application:

This series of water meters solves the problems of traditional water meters such as easy blockage, idle running, small flow not measuring, counter current and so on. It can be widely used in urban water supply pipelines, District tables, water intake monitoring, farmland irrigation, as well as in a variety of industrial and agricultural sites.

Features:

Ultrasonic probe is used to measure the pipeline. The measurement is accurate and reliable with no moving parts;

Wide range ratio and low starting flow;

With electronic lead sealing function;

Positive and negative measurements can be made;

Display abundant information, display 9-digit cumulative flow and 5-digit instantaneous flow in the same interface;

With intelligent power-saving design, the instrument will turn on the power-saving mode in the static state of fluid or empty pipe;

Storage of 24-month data;

There are many kinds of communication interface modes: RS485 interface, MBUS, MODBUS, infrared interface, support CJ-188 communication protocol and MODBUS protocol;

Optional RS485, MBUS, LORAWAN;

Pulse output, easy to connect with other equipment;

All IP68 protection grade design, all components are fully sealed protection, even if the water can work normally for a long time;

It has the function of temperature measurement;

According to different customer needs ,There are a variety of unit systems, including m³ , USG, ft³,L;
Built-in lithium battery, more than 5 years battery life, optional external 24V power supply;

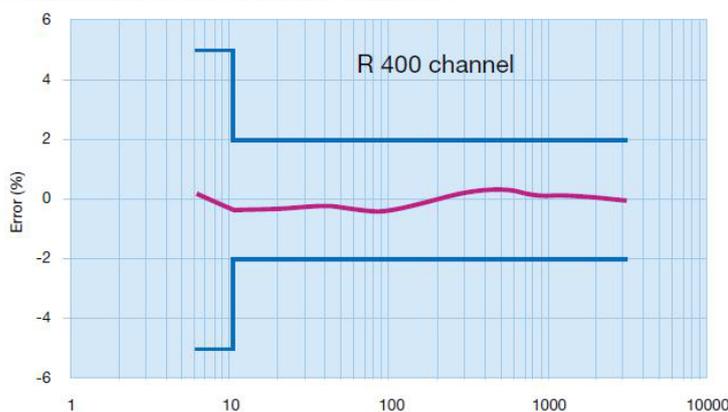
Technique Specification:

- R(Q3/Q1):R400/R250
- Accuracy Class :Class 2
- Communication protocol: EN1434, MODBUS
- Standard Compliance:ISO 4064:2005
- Data interface:LORA-WAN、RS485、M-BUS、Pulse output、Infrared
- Water Temperature class: T30/50/90
- Power supply: Battery DC 3.6V lithium,10years lifetime(optional)
- Protection Class: IP68
- Max.permissible Working Pressure: 1.6 MPA
- Mechanical Structure: Integration
- Working Environmental Requirement: Ambient temp.: -15℃~ + 70℃; Humidity: <100% (RH)
- EMC Class: E1
- Data Storage: 24 Month
- Static Consumption<10μA; Average working current<50μA

Actual Flow Performance Parameters:

| Diameter.mm | DN15 | DN20 | DN25 | DN32 | DN40 |
|---|-----------|-------|-------|-------|-------|
| R(Q3/Q1) | R400/R250 | | | | |
| Accuracy Class | Class 2 | | | | |
| Permanent Flowrate Q3(m ³ /h) | 2.5 | 4.0 | 6.3 | 10 | 16 |
| Transitional Flowrate Q2(m ³ /h) | 0.01 | 0.016 | 0.025 | 0.04 | 0.064 |
| Mininum Flowrate Q1(m ³ /h) | 0.00625 | 0.01 | 0.016 | 0.025 | 0.04 |

TYPICAL ACCURACY CURVE Q3=2,5 M³/H



Specifications subject change for improvement



CONNECT+
IoT Solution Enabled

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