Ultrasonic Water Meter UWM

SKU: UWM

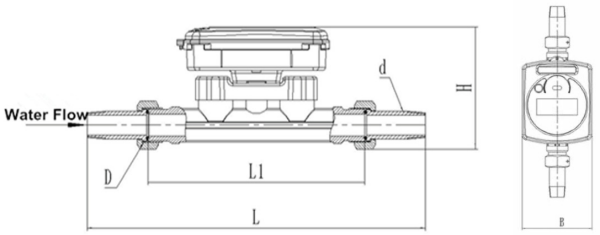
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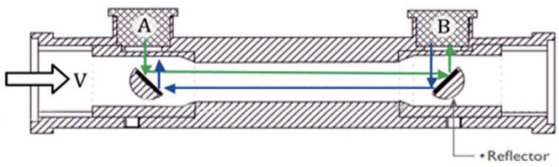
Introduction

UWM Ultrasonic water meter is a new type of water meter that detects the time difference caused by the change of velocity when the ultrasonic beam propagates in the opposite direction of the water, and analyzes and processes the flow rate of water to further calculate the flow of water..



Dimension Drawings





Features

- No mechanical movable parts, impurities in water can't be affected, long service life.
- Wide measurement range. Very small flow can be measured.
- Various alarm functions: Battery voltage can alarm, empty tubes, or pipes that are not full of water, transducer fault alarm, and more.
- Low-power design and the use of high-energy batteries can work for 8 years and more.
- The communication interface is LoRaWAN or RS485 ModbusRTU.

Dimensions

Nominal Diameter	Length L	Length L1	Width B	Height H1	Connecting Thread	
mm					d	D
15	258	165	95	95	R1/2B	G3/4B
20	299	195	95	100	R3/4	G1B
25	345	225	95	108	R1	G1 1/4B
32	305	180	95	120	R1 1/4	G1 1/2B
40	330	200	95	125	R1 1/2	G2B

Specification

Item	Unit	Details				
Nominal diameter	mm	15	20	25	32	40
Q3/Q1	R200					
Overlolad flow(Q4)	m^3/h	3.125	5	7.875	12.5	20
Nominal flow(Q3)	m^3/h	2.5	4	6.3	10	16
Transitional flow(Q2)	m^3/h	0.02	0.032	0.05	0.08	0.128
Minimum flow(Q1)	m^3/h	0.013	0.02	0.032	0.05	0.08
Accuracy class	Class 2					
Battery life	8years					
Temperature class	T30/T50					
Pressure class	≤0.063Mpa					
Pressure loss class	ΔP63					
Flow prefile sensitivity class	U10/D5					
Environmental class	Class B,M1					
Electromagnetic environment class	E1					
Working pressure	1.6Mpa					
Max flow indication	999999.9m3					
Installation position	Horizontal or Vertical					

LoRaWAN Specification

Data rate	250bps .. 5470bps
Antenna	Internal Antenna 2.67 dbi
Battery	02 x AA size 1.5VDC, battery not included
RF Frequency and Power	860..930Mhz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN class A
Data sending modes	interval time, alarm occurred and manually triggering by magnetic key
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Working temperature	1oC..+65oC
Housing	Polycarbonate plastic, IP68

Ordering codes

Item code	**Descriptions**
UWM-15-LRW-8-01	Ultrasonic Water Meter DN15 with LoRaWAN connectivity, IP68, 860-870 Mhz for EU868, IN865, RU864
UWM-15-LRW-9-01	Ultrasonic Water Meter DN15 with LoRaWAN connectivity, IP68, 900-930 Mhz for KR920, AS923, AU915, US915
** Replace 15 by 20, 25, 32, 40 for different sizes*	

⚠ Link for full datasheet:

⚠ Link for manual:

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