

Ultrasonic Water Meter UWM

SKU: UWM

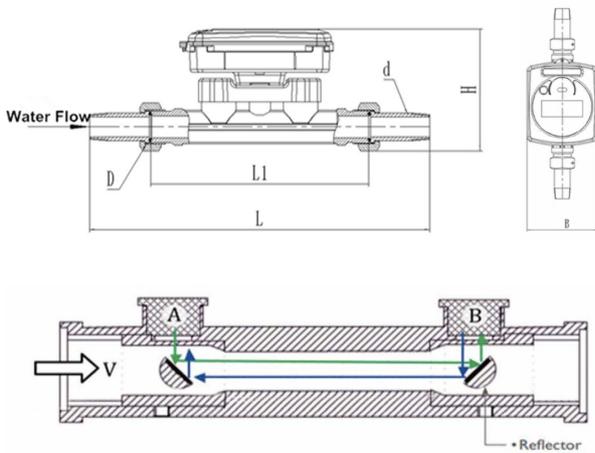
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Introduction

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

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

Dimensions

Nominal Diameter	Length L	Length L1	Width B	Height H1	Connecting Thread	
					d	D
					mm	
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				
Overload 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 profile 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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