



TS14W Ultrasonic Water Meter

Innovating Measurement Professional Smart
Meter Manufacturer

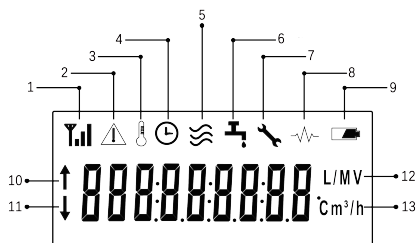


Basic Information

The TS14W series ultrasonic water meter is a high-precision electronic water metering instrument. It uses the ultrasonic time-difference method to continuously measure, record, and display the volume of water flowing through the sensor. It can meet the strict requirements of water metering management departments for accurate water consumption measurement. The TS14 is compatible with IoT transmission technology and provides customized solutions for users with different needs. It is widely used in water metering scenarios such as households, apartments, and commercial premises.

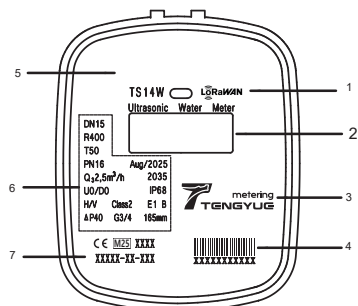
- . No moving parts in the measuring mechanism, ensuring no wear and tear;
- . Supports a 9-digit LCD display, with the minimum measurement unit of mL;
- . Supports vertical, horizontal, or inclined installation angles;
- . Supports reverse flow detection;
- . Supports non-full pipe detection;
- . Low pressure loss;
- . IP68 protection rating, adaptable to various harsh installation environments;
- . Supports remote meter data reading: wired reading via RS-485 modbus/M-Bus/pulse, and wireless reading via

LCD – FUNCTIONALITY



1	Signal strength	8	Sensor status
2	Fault Alarm	9	Battery voltage
3	Water temperature	10	Positive flow
4	Cumulative working hours	11	Reverse flow
5	Water flow indication	12	Unit
6	Drip/leak	13	Unit
7	Verification status		

Nameplate



1 Communication method

2 LCD display area

3 Manufacturer's logo

4 Ultrasonic water meter ID

5 Magnetic trigger induction area

6 Product parameter area

7 Certification compliance mark

1	DN15	Nominal Diameter
2	R400	Q3/Q1
3	T50	Temperature Class
4	PN16	Pressure Rating
5	Aug/2025	Manufacturing Date (Month/Year)
6	Q3 2.5m³/h	Permanent Flow Rate
7	2035	Service Life
8	U0/D0	Flow Sensitivity Class
9	IP68	Protection Rating
10	H/V	Installation Method
11	Class 2	Accuracy Class
12	E1	Electromagnetic Environment Class
13	B	Environmental Class
14	ΔP40	Pressure Loss Rating
15	G3/4	Connection Thread
16	165mm	Meter Length

Technical Specifications

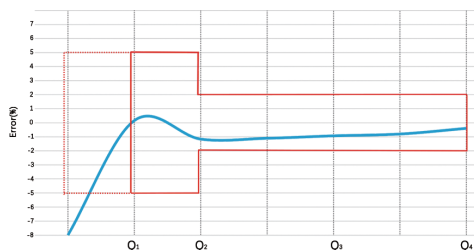
Model	Q4 m³/h	Q3 m³/h	Q2 L/h	Q1 L/h	R(Q3/Q1)	Minimum Starting Flow L/h	Pressure Loss Class ΔP(bar)
TS14W-15	3.125	2.5	16	10	R250	1	0.4
			10	6.25	R400	1	
			5	3.125	R800	1	
TS14W-20	5	4	25.6	6.25	R250	1	0.4
			16	10	R400	1	
			8	5	R800	1	
TS14W-25	7.875	6.3	40.32	25.2	R250	1	0.25
			25.2	15.75	R400	1	
			12.5	7.875	R800	1	
TS14W-32	12.5	10	64	40	R250	1.5	0.16
			40	25	R400	1.5	
			20	12.5	R800	1.5	
TS14W-40	20	16	102.4	64	R250	1.5	0.16
			64	40	R400	1.5	
			32	20	R800	1.5	

Description	Value	Unit
Accuracy Class	2	-
Q3/Q1	R250/R400/R630/R800	-
Maximum Reading	999999999	-
Pressure Class	PN16 (232psi)	-
Temperature Class	T30/T50 (T70/T90 customizable)	-
Installation Condition Sensitivity Class	U5/D3 (U0/D0 customizable)	-
Protection Rating	IP68	-
Environmental Class	O	-
Electromagnetic Class	E1	-

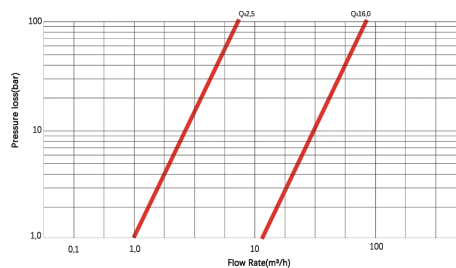
Wireless Technical Specifications

Feature	Parameters
Mode	LoRaWAN
Frequency Band Range	EU863-870/US902-928/AU915-928/AS915-928
Radiated Power	Maximum 14 dBm
Effective Distance	1-3km (open environment)
Protocol	LoRaWAN v.1.0.4
Communication Mode	Class A
Power Supply Mode	3.6V DC 17Ah
Upload Interval	1/2/4/12/24 h
Corresponding Mode	Timed

Standard Error Curve Chart



Pressure Loss Curve Chart



Dimensions



Dimension	15	20	25	32	40	15	20	25
Body material	Brass body					Nylon composite material body		
Length mm	110	115	225	180	200	110	115	260
	115	130	225	180	240	165	130	260
	165	190	260	260	300	170	190	260
	165	195	260	260	300	190	190	260
Width mm	81			97		81		
Height mm	90	95	100	107	115	90	95	100

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