

DYNAMETERS ULTRASONIC WATER METER

Series DMTFW ultrasonic water meters utilizes newest digital transit-time processing technology, with compact shape featuring longevity, good stability and high accuracy for all-electronic industrial environment. The meters contain no moving parts and don't need any external power, with the character of low power consumption. The meters are designed for easy installation. Even users don't need to set parameters. The meters have the same dimensions with industrial water meter but can be used just as conveniently as normal water meters.



Features:

- ◆ With compact, solid shape, suitable for bad environment conditions.
- ◆ No moving parts, no pressure loss or abrasion.
- ◆ Low start-up flow rate, minimum measurable flow velocity 0.003m/s, long-term stability.
- ◆ Self-adapting ultrasonic receiving circuit, can work normally and stably even when pipe is with scaling or corrosion.
- ◆ Quick transient response, can trace the flow rate change within seconds (superior to electromagnetic flow meters).
- ◆ With Infrared meter reading function.
- ◆ Battery power supply, can work constantly for 6 years.
- ◆ Unique housing design, can work underwater.
- ◆ Flange is made by mold to remove possibility of leakage.
- ◆ With self-diagnosing function and fault indicator.

Main advantages:

- ◆ High measurements precision
- ◆ Long-term stability over a wide range of measured values
- ◆ High operational reliability and minimum maintenance requirements (maintenance-free meters)
- ◆ Compared to mechanical meters, very low hydraulic losses
- ◆ Easy data reading, storage and evaluation/processing
- ◆ Identification of leaks in water distribution systems
- ◆ Installation at locations where no external power sources are available
- ◆ Measured data transfer to remote control stations

Applications:

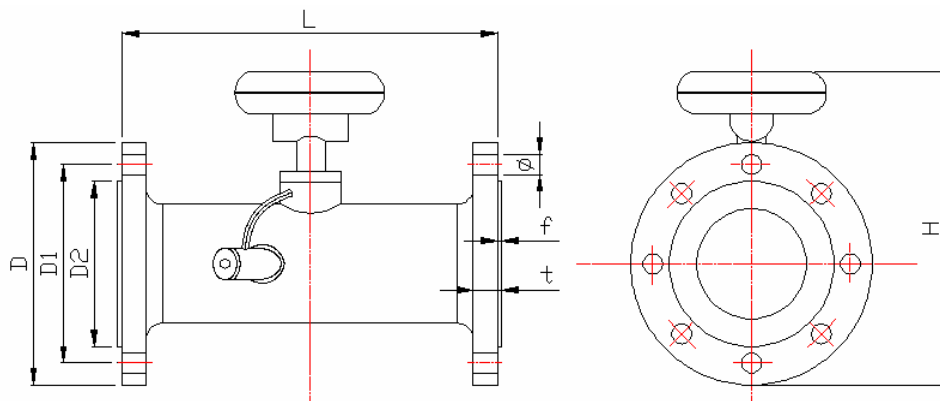
- ◆ Process control and instrumentation.

- ◆ Substituting mechanical flow meters with high measuring reliability.
- ◆ Technological measurements of instantaneous flow rate and consumption in water-supply networks.

Technical Parameters:

Items	Technical parameters
LCD display	Automatic circulative display the total flow, flow rate and velocity
Viewing mode	overlook
Positive, negative flow	With positive and negative bi-directional flow totalizer function
Output	4~20mA output (Optional)
	pulse pile-up output
Data interface(Optional)	RS232 output、RS485、M-Bus、Infrared data reading
Data logger	Can store the historic data for 18-35 months (such as monthly totalizer, working time, ect.). Data can be automatically saved when power supply is cut-off.
Power Supply	High power lithium battery (lifetime more than 6 years) , 9~30VDC power supply, current loop, M-Bus, power borrow via RS232 Serial port
Accuracy	1.0 Class
Velocity range	0.01~32.00m/s
Temperature of surroundings	-25℃~75℃ (meter suited)
temperature of measured fluid	-20℃~150℃
the range of dimensions	DN50~DN1000mm (The length is the same with Spiral Blade Water Meter)
rated pressure	1.6MPa
protection class	IP68, submersible

Mechanical Dimensions:



Flange Specifications: mm

Nominal Diameter (DN)	Pressure (MPa)	Length (L)	Height (H)	Flange Outer Diameter (D)	Bolt Circle Diameter (D1)	Bolt Diameter × No. (Φ × n)	Sealing		Flange Thickness (t)
							D2	f	
50	1.6	200	234	165	125	18 × 4	99	3	20
65		200	254	185	145	18 × 4	118	3	20
80		225	268	200	160	18 × 8	132	3	20
100		250	287	220	180	18 × 8	156	3	22
125		250	315	250	210	18 × 8	184	3	22
150		300	345	285	240	22 × 8	211	3	24
200		350	403	340	295	22 × 12	266	3	24
250		450	462	405	355	26 × 12	319	3	26
300		500	516	460	410	26 × 12	370	4	28
350		550	572	520	470	26 × 12	429	4	30
400		600	626	580	525	26 × 16	480	4	32
450		700	682	640	585	30 × 20	548	4	34
500		1	800	745	670	620	33 × 20	585	4
600	1000		858	780	725	36 × 20	685	5	36
700	0.6	1100	938	860	810	36 × 24	775	5	32
800		1200	1046	975	920	39 × 24	880	5	32
900		1300	1146	1075	1020	39 × 28	980	5	34
1000		1400	1261	1175	1120	42 × 28	1080	5	36

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