

# NB-IoT District Ultrasonic Water Meter

## Product Description

District ultrasonic water meter is designed for reliable flow measurement for municipal, commercial and industrial applications,

Nominal diameter: DN50-DN300

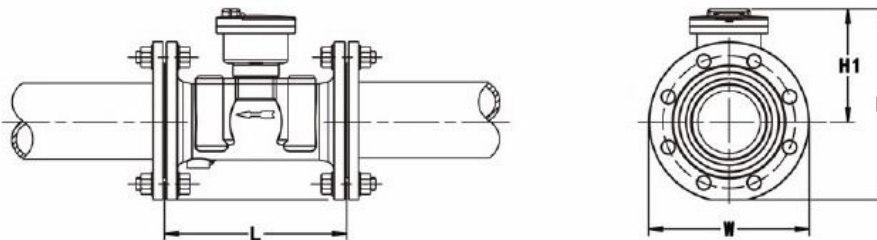
Applications: Tap Water Distribution System (Municipal, commercial, Industrial etc.)

## Product Features

- ◆ Optional communication interfaces: M-BUS, RS485, LoRa Wireless, Pulse ect, GPRS and NB-IoT.
- ◆ Meter offers a complete range of NB IoT Automatic Metering Reading (AMR) solutions, which provides a unified platform for meter reading and data management remotely.
- ◆ Automatically records the daily total of the last 2 years and monthly total of the last 24 months
- ◆ Low starting flow
- ◆ No moving parts, wear-free ultrasonic technology, Maintenance-free
- ◆ No optical-electrical conversion needed, digital remote communication
- ◆ Multi-channels design, reduces straight-pipe run requirement
- ◆ Bi-directional flow
- ◆ Conforms with GB/T 778-2007 and CJ/T 434-2013 Ultrasonic Water Meter standards



## Overall Dimensions



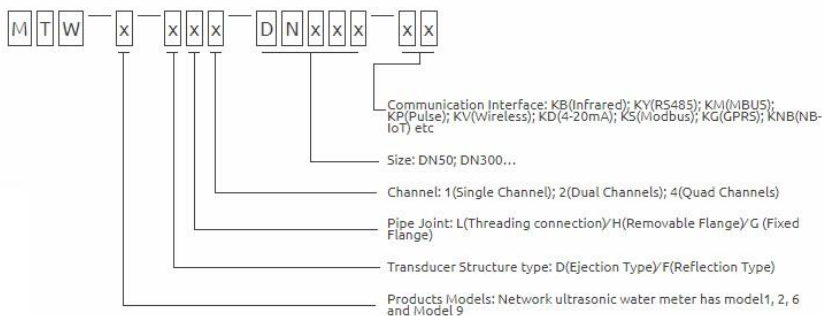
Nominal Diameter	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
L mm	200	200	225	250	250	300	350	450	500
W mm	165	185	200	220	250	285	340	405	460
H1 mm	150	158	175	181	199	217	246	272	320
H mm	235	248	264	287	320	355	410	452	550

## Technical Parameters

Model Nominal	Diameter	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
MTW-9	R100 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	25% <sub>25</sub>	4% <sub>4</sub>	63% <sub>63</sub>	100% <sub>1</sub>	160% <sub>1.6</sub>	250% <sub>2.5</sub>	400% <sub>4</sub>	630% <sub>6.3</sub>	1000% <sub>10</sub>
MTW-6	R160 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	25% <sub>16</sub>	4% <sub>25</sub>	63% <sub>39</sub>	100% <sub>6</sub>	160% <sub>1</sub>	250% <sub>1.6</sub>	400% <sub>2.5</sub>	630% <sub>5.9</sub>	1000% <sub>6</sub>
MTW-6	R250 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	25% <sub>1</sub>	4% <sub>16</sub>	63% <sub>25</sub>	100% <sub>4</sub>	160% <sub>0.6</sub>	250% <sub>1</sub>	400% <sub>1.6</sub>	630% <sub>2.5</sub>	1000% <sub>4</sub>
MTW-6	R315 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	25% <sub>08</sub>	4% <sub>13</sub>	63% <sub>2</sub>	100% <sub>3</sub>	160% <sub>0.5</sub>	250% <sub>0.8</sub>	400% <sub>1.3</sub>	630% <sub>2</sub>	1000% <sub>3</sub>
MTW-6	R400 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	25% <sub>06</sub>	4% <sub>1</sub>	63% <sub>16</sub>	100% <sub>25</sub>	160% <sub>0.4</sub>	250% <sub>0.6</sub>	400% <sub>1</sub>	630% <sub>1.6</sub>	1000% <sub>3</sub>
MTW-6	R500 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	25% <sub>05</sub>	4% <sub>08</sub>	63% <sub>13</sub>	100% <sub>2</sub>	160% <sub>0.3</sub>	250% <sub>0.5</sub>	400% <sub>0.8</sub>	630% <sub>1.3</sub>	1000% <sub>2</sub>
MTW-2	R160 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	63% <sub>39</sub>	63% <sub>25</sub>	100% <sub>6</sub>	160% <sub>1</sub>	250% <sub>1.6</sub>	400% <sub>2.5</sub>	630% <sub>5.9</sub>	1000% <sub>6</sub>	1600% <sub>10</sub>
MTW-2	R250 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	63% <sub>25</sub>	63% <sub>25</sub>	100% <sub>4</sub>	160% <sub>6</sub>	250% <sub>1</sub>	400% <sub>1.6</sub>	630% <sub>2.5</sub>	1000% <sub>4</sub>	1600% <sub>6</sub>
MTW-2	R315 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	63% <sub>2</sub>	63% <sub>2</sub>	100% <sub>3</sub>	160% <sub>5</sub>	250% <sub>0.8</sub>	400% <sub>1.3</sub>	630% <sub>2</sub>	1000% <sub>3</sub>	1600% <sub>5</sub>
MTW-2	R400 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	63% <sub>16</sub>	63% <sub>16</sub>	100% <sub>25</sub>	160% <sub>4</sub>	250% <sub>0.6</sub>	400% <sub>1</sub>	630% <sub>1.6</sub>	1000% <sub>3</sub>	1600% <sub>4</sub>
MTW-2	R500 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)	63% <sub>13</sub>	63% <sub>13</sub>	100% <sub>2</sub>	160% <sub>3</sub>	250% <sub>0.5</sub>	400% <sub>0.8</sub>	630% <sub>1.3</sub>	1000% <sub>2</sub>	1600% <sub>3</sub>
MTW-1	R160 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)		100% <sub>6</sub>	160% <sub>1</sub>	250% <sub>1.6</sub>	400% <sub>2.5</sub>	630% <sub>5.9</sub>	1000% <sub>6</sub>	1600% <sub>10</sub>	2500% <sub>16</sub>
MTW-1	R250 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)		100% <sub>4</sub>	160% <sub>6</sub>	250% <sub>1</sub>	400% <sub>1.6</sub>	630% <sub>2.5</sub>	1000% <sub>4</sub>	1600% <sub>6</sub>	2500% <sub>10</sub>
MTW-1	R315 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)		100% <sub>3</sub>	160% <sub>5</sub>	250% <sub>0.8</sub>	400% <sub>1.3</sub>	630% <sub>2</sub>	1000% <sub>3</sub>	1600% <sub>5</sub>	2500% <sub>8</sub>
MTW-1	R400 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)		100% <sub>25</sub>	160% <sub>4</sub>	250% <sub>0.6</sub>	400% <sub>1</sub>	630% <sub>1.6</sub>	1000% <sub>3</sub>	1600% <sub>4</sub>	2500% <sub>6</sub>
MTW-1	R400 Q <sub>3</sub> /Q <sub>1</sub> (m <sup>3</sup> /h)		100% <sub>25</sub>	160% <sub>4</sub>	250% <sub>0.6</sub>	400% <sub>1</sub>	630% <sub>1.6</sub>	1000% <sub>3</sub>	1600% <sub>4</sub>	2500% <sub>6</sub>
Starting Flow m <sup>3</sup> /h (changeable)		0.02	0.025	0.03	0.035	0.05	0.07	0.1	0.15	0.25
Channels		Quad Channels							Six Channels	
Pipe Joint		Flange (Body Pressure: PN16( Default); other pressures								
Accuracy Class		Class 2( Class 1 Optional)								
Pressure Class		MAP16(MAP10, MAP25)								
Environmental Class		C								
Electromagnetic Class		E1(E2)								
Pressure Loss Class		▲P25 (▲P63, ▲P40, ▲P16, ▲P10)								
Flow Field Sensitivity Class		U5D3 (U10D5, U3D0, U9D0)								
Temperature Rating		T30 (T50, T70, T90)								
Recording		Automatically records the daily total of the last 2 years and monthly total of the last 24 months								
Communication Interfaces (Optional)		Infrared, M-BUS, RS485, 4-20mA, Lora, GPRS , Pulse, NB-IoT								
Power Supply		DC3.6V (Non-rechargeable Lithium Battery)								
Metering Cycle		1 time5								
Average Operating Current		≤20μA								

## Selection Description

◆ MTW District Ultrasonic Water Meter follow below order specifications:



### Example:

**MTW-1-DG4-DN65-KB stands for Model 1-DN65 quad channels Infrared ultrasonic water meter with ejection type transducer and fixed flange**