Ultrasonic Water Meter
Mod. UWM-BT

The UWM-BT Battery operated Ultrasonic Water Meter is high reliable watermeter that works with the ultrasonic technology. This innovative system permit to measure the instantaneous flow rate and the accumulated value with a robust and reliable technology.

The sensor position permits to not have any hindrance in the flow section, granting excellent accuracy also at very low flow rates and very low pressurre loss values. The mod. UWM-BT watermeter works very well with dirty water with particles or debris inside; there aren't mechanical elements in the flow and this grants a very long lifespan and no blocking possibilities in these conditions .

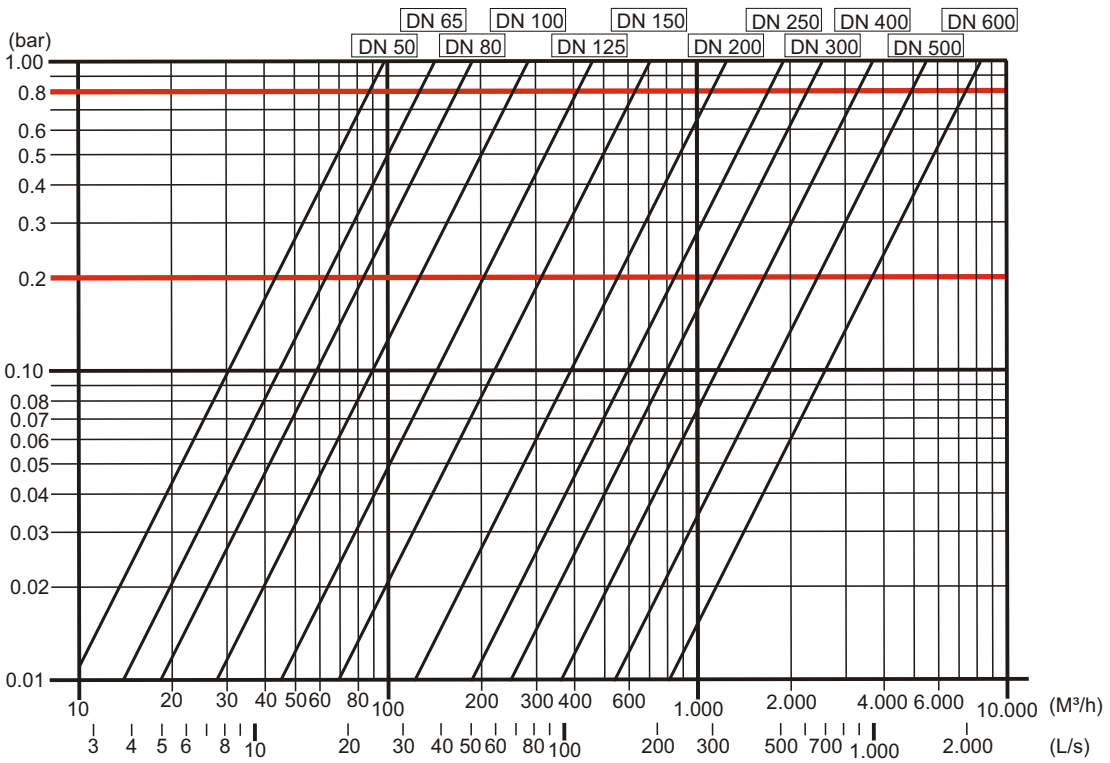
This equipment is powered by a stand alone battery that can works for about 10 years.

Technical Specifications

- Size Range from DN 50 (2") up to DN 600 (24").
- Maximum Pressure ranges from PN 16 to PN 6.
- Temperature class: T30, T50, higher on demand.
- Flow Profile Sensitivity: U5D3.
- Accuracy Class: 2.
- Protection Class Standard: IP 68.
- Environment Temperature: -20°C ~ +70°C.
- Bidirectional Measurement.
- No mechanic moving parts inside the flow.
- Connection Flanges: ISO PN 16, PN 10, ANSI 150, other on demand.
- Battery: 3,6V lithium battery, 10 years lifetime.
- Electromagnetic environmental class: E2.
- Climatic Environmental class: C.
- Output: RS 485 and Pulse, 1 meter cable included (other standars on demand).
- Data Storage:last 7x24h, 365 days and 72 months.
- Optional Pressure Sensor.

- 9 digit LCD display with prompts:
  - Cumulative Flow
  - Istantaneous Flow
  - Flow Direction
  - Battery Level
  - Alarms
  - Output mode
  - Pressure Value (optional).

PRESSURE HEAD LOSS



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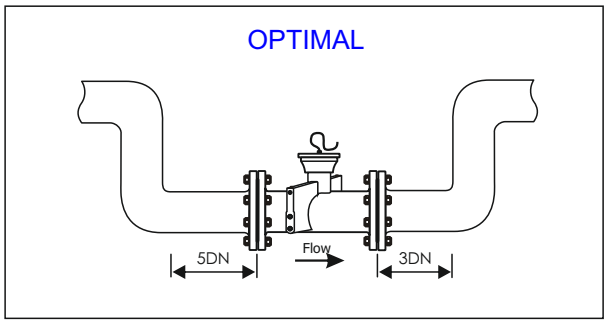
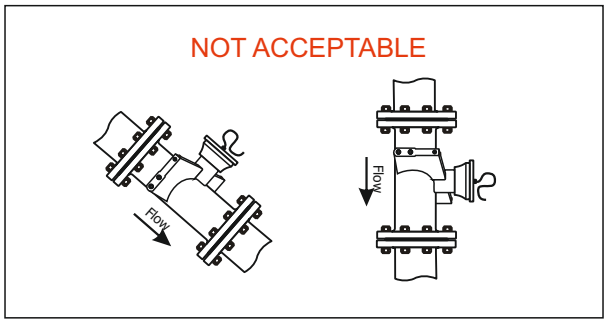
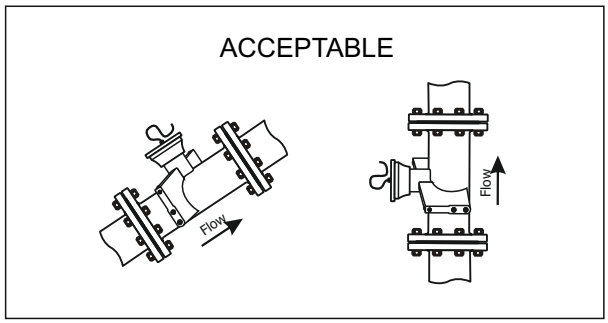
Installation Reccomendations:

- Maximum Pressure:
  - DN 50 - DN 200 PN 16
  - DN 250 - DN 400 PN 10
  - DN 500 -DN 600 PN 6

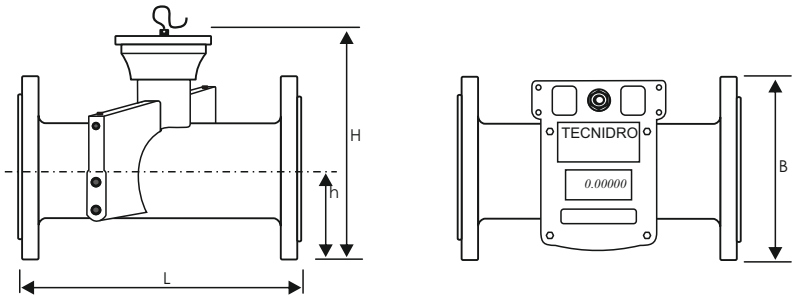
- Pipe must be always totally filled with water.
- Vertical or diagonal installation must be with ascending flow.
- Minimum distance 5DN upstream and 3DN downstream.







Dimensions and Measuring Range:



Ø	Ø	L	H	h	B	Weight	Qmin	Q1	Q2	Q3	Q4	R(Q3/Q1)
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(Kg)	(m^3/h)	(m^3/h)	(m^3/h)	(m^3/h)	(m^3/h)	-
50	2"	200	215	65	153	8.6	0.015	0.25	0.40	63	79	250
65	2"1/2	200	227	68	178	9.5	0.025	0.4	0.65	100	125	250
80	3"	225	254	95	200	14.4	0.034	0.64	1.02	160	200	250
100	4"	250	279	105	220	18.0	0.054	1.0	1.6	250	312	250
125	5"	250	306	117	254	23.5	0.084	1.0	1.6	250	312	250
150	6"	300	337	137	285	30.0	0.121	1.6	2.5	400	500	250
200	8"	350	394	155	340	42.7	0.215	2.5	4.0	630	788	250
250	10"	450	457	194	395	84.5	0.336	4.0	6.4	1000	1250	250
300	12"	500	499	215	445	84.5	0.483	6.4	10.2	1600	2000	250
400	16	600	584	278	565	126.0	0.859	10.0	16.0	2500	3125	250
500	20"	600	724	318	645	153.0	1.343	16.0	25.5	4000	5000	250
600	24"	800	800	374	755	197.0	2.147	20.0	37.0	5000	7000	250