

BAYLAN

WATER METERS

Ultrasonic LoRa® Prepaid Water Meters



ISO 4064-1

Test
TS EN ISO/IEC 17025
AS-01772

OUR MANAGEMENT
CERTIFICATES

TS EN ISO 9001:2015
TS EN ISO 14001:2015
TS EN ISO 45001:2018



GENERAL

- MID Certified • Very good sensitivity in initial starting • Suitable for potable water
- Integrated LoRa® module-chipset allows both LoRa® and FSK modulation
- Supports LoRaWAN® - Class A Protocol
- Supports Wireless MBUS Protocol
- Suitable for irrigation water purposes • No measurement of air
- Reverse flow detection • Parametric 2 pulse outputs
- Can be mounted all positions desired
- IP 68 protection class • 3 years of warranty
- Lithium battery, 10 years lifetime
- Due to the lack of moving parts, high measurement accuracy parameters, which is not possible to modify externally
- Via the LCD display providing access to meter data for Billing and check out

MAIN TECHNICAL DATA

Max. Permissible Error in Upper Flow Rates $Q_2 \leq Q \leq Q_4$:

Class 1 Meters: $\pm 1\%$ (Water Temperature $\leq 30^\circ\text{C}$), $\pm 2\%$ (Water Temperature $> 30^\circ\text{C}$)

Class 2 Meters: $\pm 2\%$ (Water Temperature $\leq 30^\circ\text{C}$), $\pm 3\%$ (Water Temperature $> 30^\circ\text{C}$)

Max. Permissible Error in Lower Flow Rates $Q_1 \leq Q < Q_2$:

Class 1 Meters: $\pm 3\%$ | Class 2 Meters: $\pm 5\%$

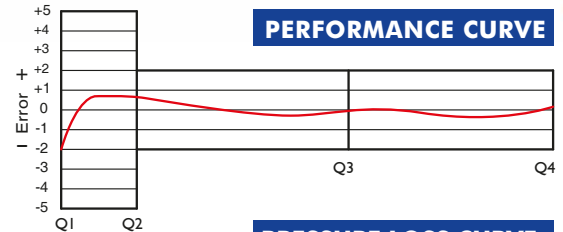
Max. Water Temperature: 50°C - Max. Working Pressure: 16 bar

Environmental Classes= Climatic : O ($-10^\circ\text{C}/+55^\circ\text{C}$) | Mechanic: M1 | Electromagnetic: E2

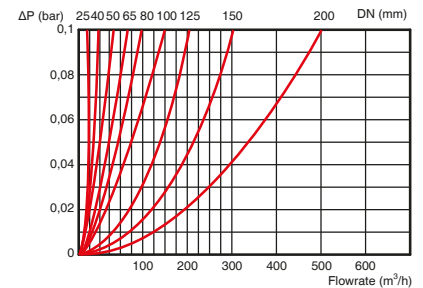
Class: Class 1/Class 2 - Pressure Loss Class: $\Delta P10$



PERFORMANCE CURVE



PRESSURE LOSS CURVE



METER SIZE DIA (mm)	TYPE	Q ₃ / Q ₁	Q4	Q3	Q2	Q1	SMALLEST READING RESOLUTION	MAX. REGISTRATION CAPACITY
			MAX FLOW	NOMINAL FLOW	TRANSITIONAL FLOW	MIN. FLOW		
			m ³ /h				m ³	
25	U 3	≤500	7,875	6,3	0,020	0,0126	0,00001	999999
40	U 5	≤500	20	16	0,0512	0,032	0,00001	999999
50	UW 6	≤800	31,25	25	0,05	0,03125	0,00001	99999999
65	UW 0	≤800	50	40	0,08	0,05	0,00001	99999999
80	UW 1	≤800	78,75	63	0,126	0,07875	0,00001	99999999
100	UW 2	≤800	125	100	0,2	0,125	0,00001	99999999
125	UW 3	≤800	200	160	0,32	0,2	0,00001	99999999
150	UW 4	≤800	312,5	250	0,5	0,3125	0,00001	99999999
200	UW 5	≤800	500	400	0,8	0,5	0,00001	99999999

DIMENSIONS & WEIGHTS

METER SIZE DIA (mm)	L LENGTH	B WIDTH	H HEIGHT	CONNECTING FLANGE			PACKAGE WEIGHT (Without Flange) (kg)	PACKAGE WEIGHT (With Flange) (kg)
				D2 (mm) FLANGE DIA	D1 (mm) FLANGE HOLE CENTER	CONNECTION BOLT (PCS-DIA)		
25	265	113	155	G1 1/4 B	-	-	2,31	2,75
40	415	120	238	G2 B	-	-	10,00	11,00
50	410	165	275	165	125	4 - M16	18,15	22,70
65	475	185	315	185	145	4 - M16	27,10	32,10
80	505	205	315	200	160	8 - M16	30,80	37,40
100	570	220	345	220	180	8 - M16	43,30	50,55
125	670	300	430	250	210	8 - M16	100,2	110,5
150	720	380	445	285	240	8 - M20	117,4	129,9
200	850	370	530	340	295	12 - M20	195,0	213,3

"Due to continuous development of our products, we reserve the right to modify our product design or construction without prior notice."