

# BAYLAN

## WATER METERS

## Ultrasonic Water Meters



### GENERAL

- MID Certified • No measurement of air • Reverse flow detection
- Radio Frequency automatic remote reading • IP 68 protection class
- M-Bus & wM-Bus interfaces • Modbus interfaces (Optional)
- Ultrasonic working principle assures very high sensitivity even at low flow
- Meters are protected against tampering by Seal Stickers with BAYLAN brandname hologram, approved by Metrology Institute
- Internal hourly data logging facility for collecting past records (up to 1 month)
- Calibration is done inside the electronic circuit digitally by software parameters, which is not possible to modify externally
- The compact design uses ultrasonic measurement technology
- Due to the lack of moving parts, high measurement accuracy
- Suitable for potable water • Advanced service network
- Very good sensitivity in initial starting • Suitable for cold water up to 50°C
- Wide dynamic measuring range and low pressure loss
- Solid stainless steel reflector • Can be mounted all positions desired
- Lithium battery, 10 years lifetime • 3 years of warranty
- Service and spare parts available for 10 years



### MAIN TECHNICAL DATA

Max. Permissible Error in Upper Flow Rates  $Q_2 \leq Q \leq Q_4$ :  $\pm 2\%$  ( $\leq 30^\circ\text{C}$ ),  $\pm 3\%$  ( $> 30^\circ\text{C}$ )

Max. Permissible Error in Lower Flow Rates  $Q_1 \leq Q \leq Q_2$ :  $\pm 5\%$

Max. Water Temperature:  $50^\circ\text{C}$  - Max. Working Pressure: 16 bar

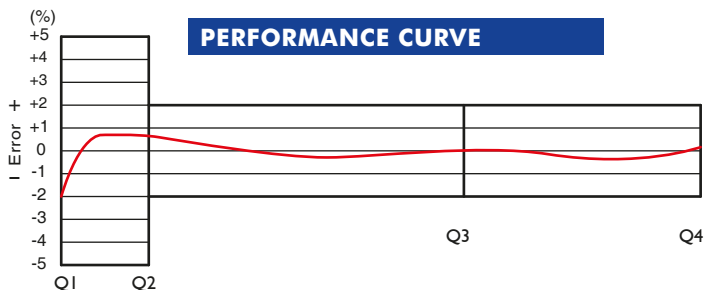
Environmental Classes= Climatic :  $-10^\circ\text{C}/+55^\circ\text{C}$  - Mechanic: M1/O - Electromagnetic: E2

METER SIZE DIA (mm)	TYPE	Q <sub>3</sub> / Q <sub>1</sub>	Q <sub>4</sub> MAX FLOW	Q <sub>3</sub> NOMINAL FLOW	Q <sub>2</sub> TRANSITIONAL FLOW	Q <sub>1</sub> MIN. FLOW	PRESSURE LOSS CLASS	SMALLEST READING RESOLUTION	MAX. REGISTRATION CAPACITY
			m <sup>3</sup> /h						
15	U-1	$\leq 500$	3,125	2,5	0,008	0,005	0,25	0,00001	999999
20	U-2	$\leq 500$	5	4	0,0128	0,008	0,16	0,00001	999999
25	U-3	$\leq 500$	7,875	6,3	0,020	0,0126	0,16	0,00001	999999
32	U-4	$\leq 500$	12,5	10	0,032	0,020	0,16	0,00001	999999
40	U-5	$\leq 500$	20	16	0,0512	0,032	0,16	0,00001	999999

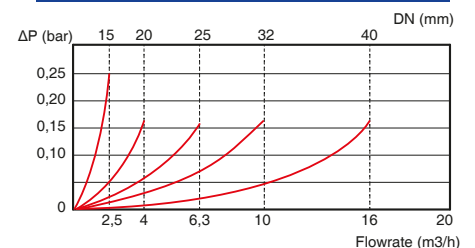
### DIMENSIONS & WEIGHTS

METER SIZE DIA (mm)	TYPE	D CONNECTING DIAMETER	H METER HEIGHT	h AXIS HEIGHT	L LENGTH	B WIDTH	LB LENGTH WITH CONNECTION	LCD SCREEN LENGTH	LCD SCREEN ANGLE	UNIT WEIGHT
(mm)										kg
15	U-1	G 3/4 B	129	19,2	110/130	80	190/210	47x15	30°	0,80
20	U-2	G1 B	129	19,2	130	80	210	47x15	30°	0,80
25	U-3	G1 1/4 B	139	24	160	80	240	47x15	30°	0,85
32	U-4	G1 1/2 B	147	25	180	80	260	47x15	30°	1,30
40	U-5	G2 B	152	32,6	200	80	280	47x15	30°	1,70

### PERFORMANCE CURVE



### PRESSURE LOSS CURVE



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