

BAYLAN

WATER METERS

Ultrasonic Water Meters



GENERAL

- MID Certified • No measurement of air • Reverse flow detection
- 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
- 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
- Radio Frequency automatic remote reading • Modbus interfaces (Optional)
- Wide dynamic measuring range and low pressure loss
- Solid stainless steel reflector • Can be mounted all positions desired
- IP 68 protection class • M-Bus & wM-Bus interfaces
- Lithium battery, 10 years lifetime • 3 years of warranty
- Service and spare parts available for 10 years



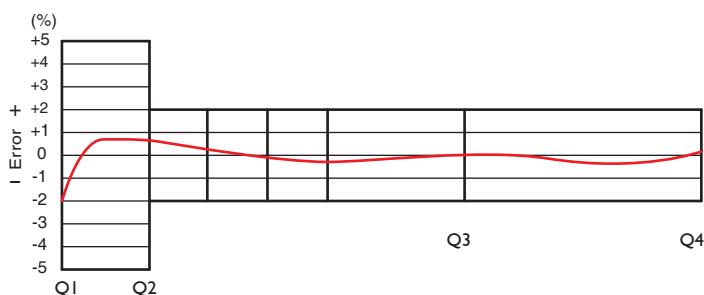
MAIN TECHNICAL DATA

DN NOMINAL DIAMETER	TYPE	Q3 PERMANENT FLOWRATE	Q4 OVERLOAD FLOWRATE	Q2 TRANSITIONAL FLOWRATE	Q1 MINIMUM FLOWRATE	PRESSURE LOSS CLASS	MAX. WORKING TEMPERA.	Q3/Q1 (MI-001 OIML R49)	MAX. REGISTRATION CAPACITY	SMALLEST READING RESOLUTION
(mm)		m ³ / h					°C		m ³	
15	U-1	2,5	3,125	0,016	0,010	ΔP 25	50	≤250	999999	0,00001
20	U-2	4	5	0,0256	0,016	ΔP 16	50	≤250	999999	0,00001
25	U-3	6,3	7,875	0,040	0,025	ΔP 16	50	≤250	999999	0,00001
32	U-4	10	12,5	0,064	0,040	ΔP 16	50	≤250	999999	0,00001
40	U-5	16	20	0,1024	0,064	ΔP 16	50	≤250	999999	0,00001

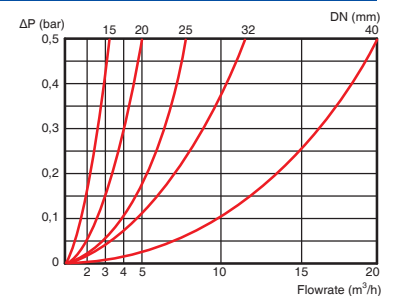
DIMENSIONS & WEIGHTS

DN NOMINAL DIAMETER	D CONNECTING DIAMETER	H TOTAL METER HEIGHT	h AXIS HEIGHT	L LENGTH	B WIDTH	LB LENGTH WIDTH CONNECTIONS	LCD SCREEN LENGTH	LCD SCREEN ANGLE	UNIT WEIGHT
(mm)									kg
15	G 3/4 B	100	20	130	87	210	40x22	30°	0.80
20	G1 B	100	20	130	87	210	40x22	30°	0.80
25	G1 1/4 B	100	21.5	160	87	240	47x15	30°	0.85
32	G1 1/2 B	150	26	180	80	260	47x15	30°	1.30
40	G2 B	152	32	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."

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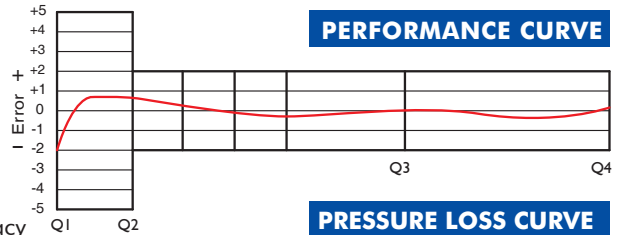
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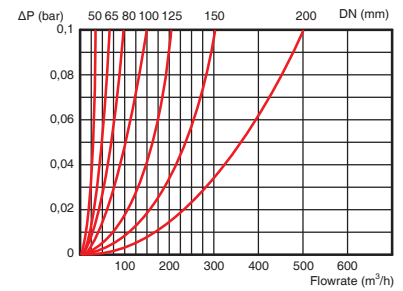


GENERAL

- MID Certified • Very good sensitivity at starting flow • Modbus or M-Bus interfaces (Optional)
- Ultrasonic working principle assures very high sensitivity even at low flow
- Reading through the center of the GPRS system, the collector of conformity (Optional)
- Via the LCD display providing access to meter data for billing and check out • Parametric 2 pulse outputs
- Meters are protected against tampering by Seal Stickers with BAYLAN brandname hologram, approved by Metrology Institute
- Suitable for potable water • Advanced service network
- Suitable for cold water up to 50°C
- No measurement of air • Reverse flow detection
- Wide dynamic measuring range and low pressure loss
- Can be mounted all positions desired
- IP 68 protection class
- Radio Frequency automatic remote reading (Optional)
- Due to the lack of moving parts, high measurement accuracy
- Calibration is done inside the electronic circuit digitally by software parameters, which is not possible to modify externally
- Lithium battery, 10 years lifetime • 3 years of warranty
- Service and spare parts available for 10 years



PERFORMANCE CURVE



PRESSURE LOSS CURVE



MAIN TECHNICAL DATA

At low flows : $\pm 5\%$ (error) between minimum flow rate (Q_1) and transitional flow rate (Q_2)
 At high flows : $\pm 2\%$ (error) between transitional flow rate (Q_2) and overload flow rate (Q_4)
 Max. Working Temperature : 50°C
 Max. Working Pressure : 16 bar

METER SIZE DIA (mm)	TYPE	Q ₃ / Q ₁	Q ₄ MAX FLOW	Q ₃ NOMINAL FLOW	Q ₂ TRANSITIONAL FLOW	Q ₁ MIN. FLOW	SMALLEST READING RESOLUTION	MAX. REGISTRATION CAPACITY
			m ³ /h					
50	UW 6	250 / 315 / 400	31,25	25	0,160 / 0,127 / 0,100	0,100 / 0,079 / 0,063	0,00001	99999999
65	UW 0	250 / 315 / 400	50	40	0,256 / 0,203 / 0,160	0,160 / 0,127 / 0,100	0,00001	99999999
80	UW 1	250 / 315 / 400	78,75	63	0,403 / 0,320 / 0,252	0,252 / 0,200 / 0,158	0,00001	99999999
100	UW 2	250 / 315 / 400	125	100	0,640 / 0,508 / 0,400	0,400 / 0,317 / 0,250	0,00001	99999999
125	UW 3	250 / 315 / 400	200	160	1,024 / 0,813 / 0,640	0,640 / 0,508 / 0,400	0,00001	99999999
150	UW 4	250 / 315 / 400	312,5	250	1,600 / 1,270 / 1,000	1,000 / 0,794 / 0,625	0,00001	99999999
200	UW 5	250 / 315 / 400	500	400	2,560 / 2,032 / 1,600	1,600 / 1,270 / 1,000	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) BOLT CIRCLE DIA.	CONNECTION BOLT (PCS-DIA)		
50	200	165	200	165	125	4 - M16	9	13,50
65	200	185	215	185	145	4 - M16	10,5	15,7
80	225	200	230	200	160	8 - M16	12,6	19,20
100	250	220	240	220	180	8 - M16	16,00	23,25
125	250	250	270	250	210	8 - M16	20,47	31,22
150	300	285	290	285	240	8 - M20	27,17	39,67
200	350	340	340	340	295	8 - M20	41,9	60,35

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