

BAYLAN

WATER METERS

ST-15P/ST-20P/ST-25P/ST-32P

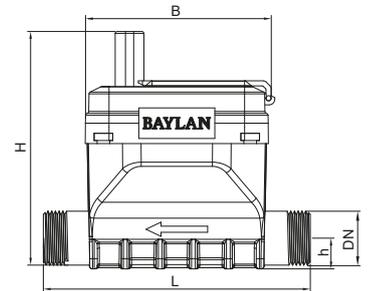
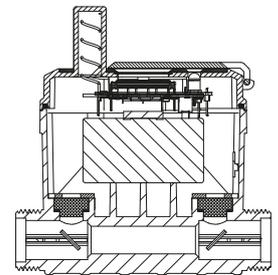
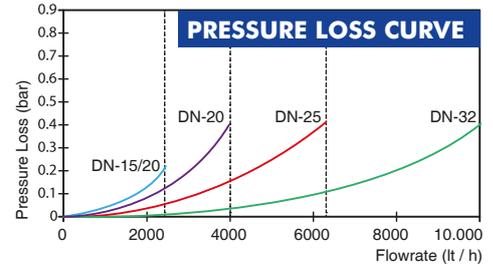
RF / LoRa® Remote Reading

Ultrasonic Water Meters



GENERAL

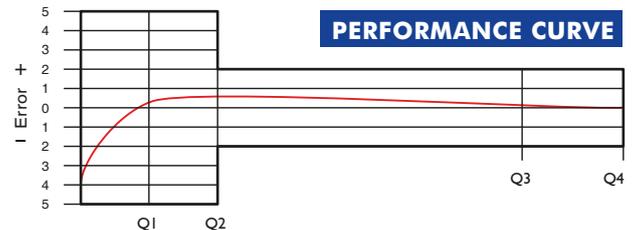
- MID Certificated
 - Supports Wireless MBUS Protocol • RF Readings
 - Integrated LoRa® module-chipset allows both LoRa® and FSK modulation
 - Supports LoRaWAN® - Class A Protocol
 - Selectable Frequency Band EU 863-870 Mhz
 - ETSI EN 300 220-2 V3.2.1 (2018-06) compliant
 - Composite body with high resistance to pressure and impacts
 - Ultrasonic principle assures very high sensitivity even at low flow
 - Battery life up to 10 years
 - Suitable for cold water up to 50°C • Suitable for potable water
 - No measurement of air • Reverse flow detection
 - Wide dynamic measuring range and low pressure loss
 - Solid stainless steel reflector • IP 68 protection class
 - Can be mounted all positions desired
 - Leakage control system • 3 years of warranty
 - Service and spare parts available for 10 years
 - Anti tampering sensor for meter removal
 - Environmental Classes
- Climatic : -25°C/+60°C | Mechanic: M1/O | Elektromagnetic: E2
- Q2 ≤ Q ≤ Q4 Maximum Permissible Error
 - Class 2 Water Meters; %±2 (Water Temp. ≤ 30°C), %±3 (Water Temp. > 30°C)
 - Class 1 Water Meters; %±1 (Water Temp. ≤ 30°C), %±2 (Water Temp. > 30°C)
 - Q1 ≤ Q < Q2 Maximum Permissible Error
 - Class 2 Water Meters; % ± 5 | Class 1 Water Meters; % ± 3



PERFORMANCE DATA

Nominal Diameter	DN	15	20	25	32	
Overload Flowrate Q4	m³/h	3,125	3,125	5	7,875	12,5
Permanent Flowrate Q3	m³/h	2,5	2,5	4	6,3	10
Transitional Flowrate Q2	m³/h	0,005	0,005	0,008	0,0126	0,02
Minimum Flowrate Q1	m³/h	0,003125	0,003125	0,005	0,0078	0,012
Q3/Q1 (MI-001 OIML R49)	-	≤800	≤800	≤800	≤800	≤800
Pressure Loss Class	bar	0,25	0,25	0,40	0,40	0,40
Mounting on the network	-	All Positions				
Maximum Registration Capacity	m³	999999,999				
Initial Flow Qi	l/h	2				
Maximum Working Pressure	bar	16				
Maximum Working Temperature	°C	50				
Smallest Reading Resolution	m³	0,000001				
Accuracy Class	-	Class 1/Class 2				
Quantity per package	-	10				

PERFORMANCE CURVE



DIMENSIONS

Nominal diameter	DN	15	15	20	20	25	32	mm
Connecting diameter	D	G 3/4	G 3/4	G 1	G 1	G 1	G 1	B
Total overall meter height	H	116	116	120	120	123	126	mm
Axis height	h	15	15	19	19	22	25	mm
Length	L	110 115 130 145	165 170 190	110 115 130	165 190	225 260	230 260	mm
Length with connections	LB	190 195 210 225	245 250 270	190 195 210	245 270	345 380	360 390	mm
Width	B	80	80	80	80	80	80	mm
LCD Screen Length		50x22	50x22	50x22	50x22	50x22	50x22	mm
LCD Screen Angle		30°	30°	30°	30°	30°	30°	mm
Unit weight		0,34/0,42	0,43/0,51	0,44/0,52	0,62/0,70	0,72/0,80	0,73/0,71	kg
Package Weight (without connect)		4,20	5,10	5,20	7,10	8,10	8,20	kg
Package Weight (with connect)		5,80	6,70	7,10	9,00	10,00	10,10	kg
Package dimensions		22x43x17	24x47x23	22x43x17	24x47x23	24x47x23	24x47x23	cm

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