

BAYLAN

WATER METERS

AK-311 LoRa®

Remote Reading and Prepaid Water Meters



GENERAL

- MID Certificated • Supports Wireless MBUS Protocol
- Integrated LoRa® module-chipset allows both LoRa® and FSK modulation
- Supports LoRaWAN®- Class A Protocol • Built-in buzzer
- Selectable Frequency Band EU 863-870 Mhz
- Complete management of the water consumption
- Contactless card usage ensures isolation against external effects
- Setting up different tariffs • Suitable for potable water
- IP68 protected electronic circuit and mechanical meter
- Check valve disabling bidirectional water flow
- Fitting security cover and electronic sensor
- Battery life up to 10 years
- LCD display with backlight • Suitable for cold water up to 50°C
- All spare parts available, wide range of service network
- Leakage control system, 3 years of warranty
- All spare parts available, wide range of service network
- Environmental Classes

Climatic : -10°C/+55°C | Mechanic: M1/O | Elektromagnetic: E2

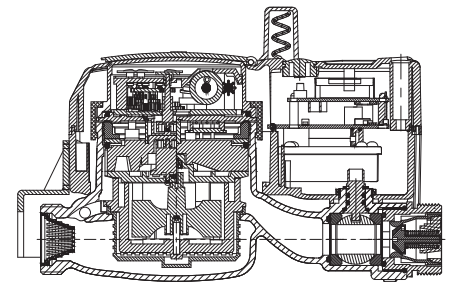
• Q2 ≤ Q ≤ Q4 Maximum Permissible Error

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)

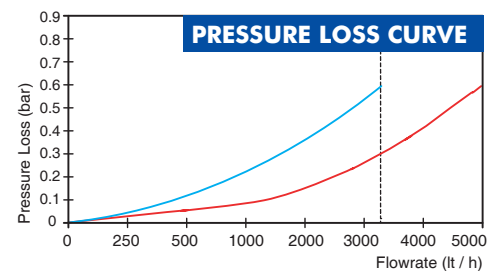
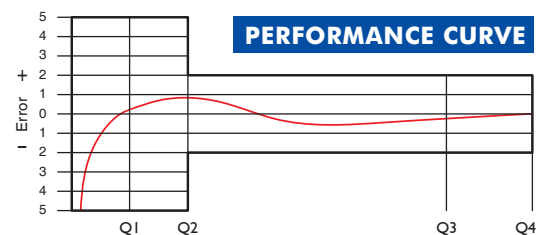
• Q1 ≤ Q < Q2 Maximum Permissible Error

Class 2 Water Meters; % ± 5 | Class 1 Water Meters; % ± 3



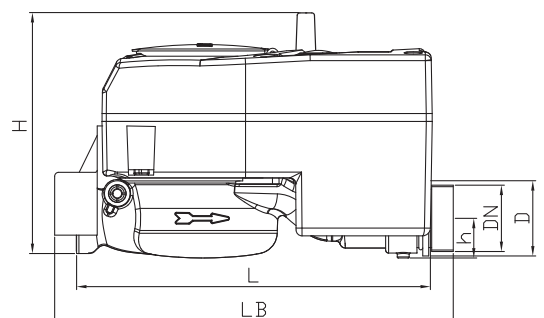
PERFORMANCE DATA

Nominal Diameter	DN	15/20	20
Overload Flowrate	Q4	m³/h	3,125 5
Permanent Flowrate	Q3	m³/h	2,5 4
Transitional Flowrate	Q2	m³/h	0,016 0,0256
Minimum Flowrate	Q1	m³/h	0,010 0,016
Q3/Q1 (MI-001 OIML R49)	-	≤250	≤250
Initial Flow	Qi	l/h	7
Maximum Working Pressure	bar	16	
Maximum Working Temperature	°C	50	
Pressure Loss Class	bar	0,63	
Maximum Registration Capacity	m³	9999/ 99999/ 99999,99/ 99999,999	
Smallest Reading Resolution	m³	0,00005	
Mounting on the network	-	Horizontal	
Accuracy Class	-	Class 1 / Class 2	
Quantity per package	-	5	
Package dimensions	cm	16x55x24	



DIMENSIONS

Nominal diameter	DN	15	20	mm
Connecting diameter	D	G 3/4	G 1	B
Total overall meter height	H	108	108	mm
Axis height	h	21	21	mm
Length	L	190	190	mm
Width	B	100	100	mm
Length with connections	LB	270	270	mm
LCD Screen Length		64x20	64x20	mm
LCD Screen Angle		30°	30°	mm
Unit weight		1,58	1,60	kg
Package Weight (without connections)		8,68	8,90	kg
Package Weight (with connections)		9,50	9,85	kg



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