

BAYLAN

WATER METERS

AK-411 RF / LoRa® Remote Reading and Prepaid Ultrasonic Water Meters



GENERAL

- MID Certificated • RF Readings
- 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
- Segment or Graphic LCD, backlit display option
- Ultrasonic principle assures very high sensitivity even at low flow
- Contactless card usage ensures isolation against external affects
- 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
- Environmental Classes

Climatic : -25°C/+60°C | Mechanic: M1/O | Elektromagnetic: E2

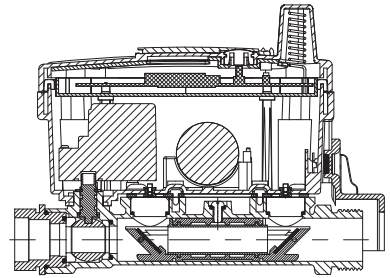
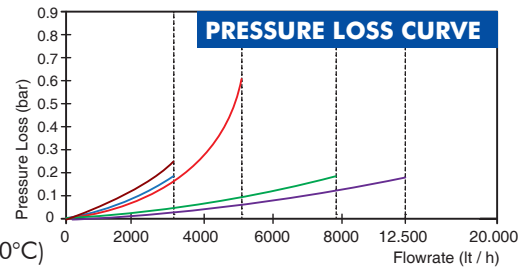
• Q2 ≤ Q ≤ Q4 Maximum Permissible Error

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)

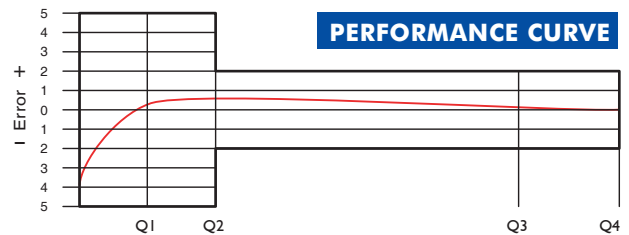
• Q1 ≤ Q < Q2 Maximum Permissible Error

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



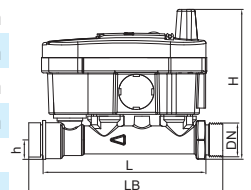
PERFORMANCE DATA

Nominal Diameter	DN	15	20	25	32	40
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 0,010	0,010	0,016	0,0252	0,040
Minimum Flowrate	Q1	m³/h 0,0062	0,0062	0,010	0,0158	0,025
Q3/Q1 (MI-001 OIML R49)	-	≤400	≤400	≤400	≤400	≤400
Pressure Loss Class	bar	0,16	0,25	0,63	0,16	0,16
Mounting on the network	-	All Positions				
Maximum Registration Capacity	m³	999999				
Initial Flow	Qi	l/h	3			
Maximum Working Pressure	bar	16				
Maximum Working Temperature	°C	50				
Smallest Reading Resolution	m³	0,00001				
Accuracy Class	-	Class 1/Class 2				



DIMENSIONS

DIMENSIONS	With / Without Valve	Without Valve					Composite	Brass	mm
		15	20	25	32	40	With Valve	With Valve	
Nominal diameter	DN	15	20	25	32	40	40	40	
Connecting diameter	D	G 3/4	G 1	G 1 1/4	G 1 1/2	G 2	G 2	G 2	
Total overall meter height	H	147	147	153	161	170	215	215	
Axis height	h	19	19	21,9	24,9	32	40	40	
Width	B	91	91	91	91	91	126	126	
Length	L	190	190	225	230/260	200	464	464	
Length with connections	LB	270	270	345	360/390	330	594	594	
LCD Screen Length		55x30	55x30	55x30	55x30	55x30	55x30	55x30	
LCD Screen Angle		30°	30°	30°	30°	30°	30°	30°	
Unit weight		1,18	1,20	1,4/1,7	1,5/1,9	1,2/1,7	4,1/4,5	7,8/8,3	
Package Weight (without con.)		6,75	6,85	8,42	9,00	7,90	5,30	9,00	
Package Weight (with con.)		7,55	7,80	10,62	12,40	12,85	5,60	9,30	
Quantity per package		5	5	5	5	5	1	1	
Package dimensions		17x52x23	17x52x23	26x52x30	26x52x30	26x52x30	13x60x22	13x60x22	



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