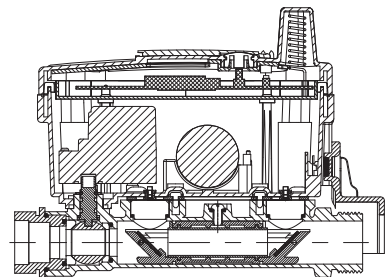
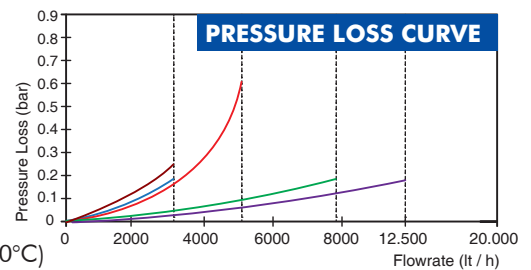


## AK-411 STS Smart Prepaid Ultrasonic Water Meters



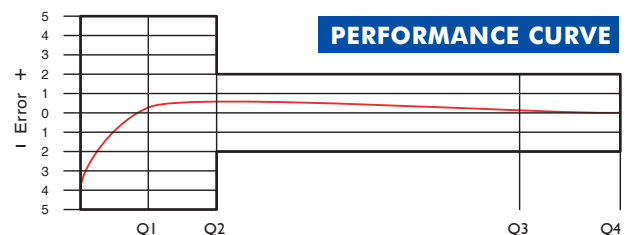
### GENERAL

- MID Certificated • STS Certificated
  - Robust and proved encryption technology
  - Loading credit without smart card from anywhere
  - Radio Frequency automatic remote reading
  - Segment or Graphic LCD, backlit display option
  - Complete management of the water consumption
  - Elimination of meter reading process
  - No meter dismantling because of the debts
  - 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
  - Environmental Classes
- Climatic : -25°C/+60°C | Mechanic: M1/O | Elektromagnetic: E2
- $Q2 \leq Q \leq Q4$  Maximum Permissible Error
  - Class 2 Water Meters;  $\% \pm 2$  (Water Temp.  $\leq 30^\circ\text{C}$ ),  $\% \pm 3$  (Water Temp.  $> 30^\circ\text{C}$ )
  - Class 1 Water Meters;  $\% \pm 1$  (Water Temp.  $\leq 30^\circ\text{C}$ ),  $\% \pm 2$  (Water Temp.  $> 30^\circ\text{C}$ )
  - $Q1 \leq Q < Q2$  Maximum Permissible Error
  - Class 2 Water Meters;  $\% \pm 5$  | Class 1 Water Meters;  $\% \pm 3$



### PERFORMANCE DATA

Nominal Diameter	DN	15	20	25	32	40
Overload Flowrate Q4	m <sup>3</sup> /h	3,125	3,125	5	7,875	12,5
Permanent Flowrate Q3	m <sup>3</sup> /h	2,5	2,5	4	6,3	10
Transitional Flowrate Q2	m <sup>3</sup> /h	0,010	0,010	0,016	0,0252	0,040
Minimum Flowrate Q1	m <sup>3</sup> /h	0,0062	0,0062	0,010	0,0158	0,025
Q3/Q1 (MI-001 OIML R49)	-	$\leq 400$	$\leq 400$	$\leq 400$	$\leq 400$	$\leq 400$
Pressure Loss Class	bar	0,16	0,25	0,63	0,16	0,16
Mounting on the network	-	All Positions				
Maximum Registration Capacity	m <sup>3</sup>	999999				
Initial Flow Qi	l/h	3				
Maximum Working Pressure	bar	16				
Maximum Working Temperature	°C	50				
Smallest Reading Resolution	m <sup>3</sup>	0,00001				
Accuracy Class	-	Class 1/Class 2				



### DIMENSIONS

DIMENSIONS		With / 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	

