

Cascade-CM Ultrasonic Water Meter (Composite Material)



Features

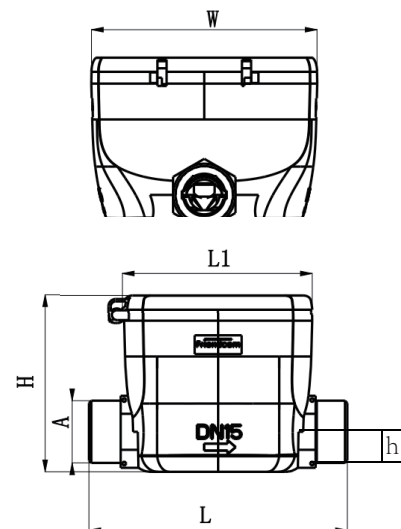
- Ultrasonic flow measurement without mechanical components
- High stability and accuracy in long term measurement
- WMbus and LoRaWAN mode or NB-IoT can be integrated in the meter
- The meter support NFC and infrared communication which leads to easy field maintenance
- Separate energy circuit for metrology and communication
- The maximum range ratio up to R800
- The compact size is easy to install in confined space
- Long battery life up to 20 years
- Ultra-low starting flow rate:1 l/h
- Bidirectional measurement

Optional

- Pressure sensor
- SMA connection for external antenna

Dimensions

DN	Dimensions(mm)					
	L	L1	H	A	W	h
DN15	110	81	75	G3/4" B	97	17
DN20	130	81	75	G1/B	97	17



Technical Specifications

Nominal Diameter	DN15	DN20
Continuous Flow Rate Q3(m ³ /h)	2.5	4
Overload Flow Rate Q4(m ³ /h)	3.125	5
Transitional Flow Rate Q2(l/h)	5	8
Minimum Flow Rate Q1(l/h)	3.125	5
Starting Flow Rate(l/h)	1	1
Dynamic Range R,Q3/Q1	R400/R500/R630/R800	
Temperature Class	T30/T50	
Sensitivity Level	U0/D0	
Maximum Display(m ³)	999999.999	
Environment Class	M1, E2	
Installation Class	Outdoor or Indoor	
Maximum Permissible Error in the range Q2≤Q≤Q4	±2% (T≤30℃)	
	±3% (T>30℃)	
Maximum Permissible Error in the range Q1≤Q<Q2	±5%	
Battery	1 battery 3,6V DC 8.5 Ah lithium for metrology circuit 1 battery 3,6V DC 8.5 Ah lithium for communication circuit	
RF	868 MHz up to 10 mW E.R.P.	
Maximum Pressure(bar)	MAP16	
Pressure Loss at Q3(bar)	0.25	
Installation Orientation	H, V, H/V	
Backflow	Certified According to 2014/32/EU (MID)	
Relative Humidity	≤100	
Protection Level	IP68	
Water Meter Length(mm)	110	130

