

Cascade-Aeris Ultrasonic Water Meter

(Brass/Stainless Steel)

Features

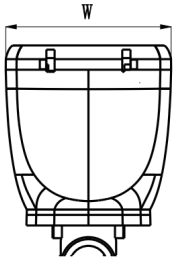
- Ultrasonic flow measurement without mechanical components
- High stability and accuracy in long term measurement
- WMBus and LoRaWAN dual mode or NB-IoT can be integrated in the meter
- The meter support NFC and infrared communication which leads to easy field maintenance
- Separate energy circuit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

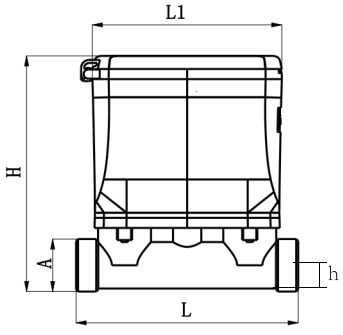
Optional

- Pressure sensor
- Shut-off valve
- SMA connection for external antenna

Dimensions

DN	Dimensions(mm)					
	L	L1	H	A	W	h
DN15	110/165	94	117	G3/4"B	78	13.5
DN20	130/190	94	121	G1"B	78	17.7
DN25	225/260	94	130	G5/4"B	78	21.4
DN32	260	94	141.5	G3/2"B	78	30.5
DN40	300	94	145.8	G2"B	78	30.6

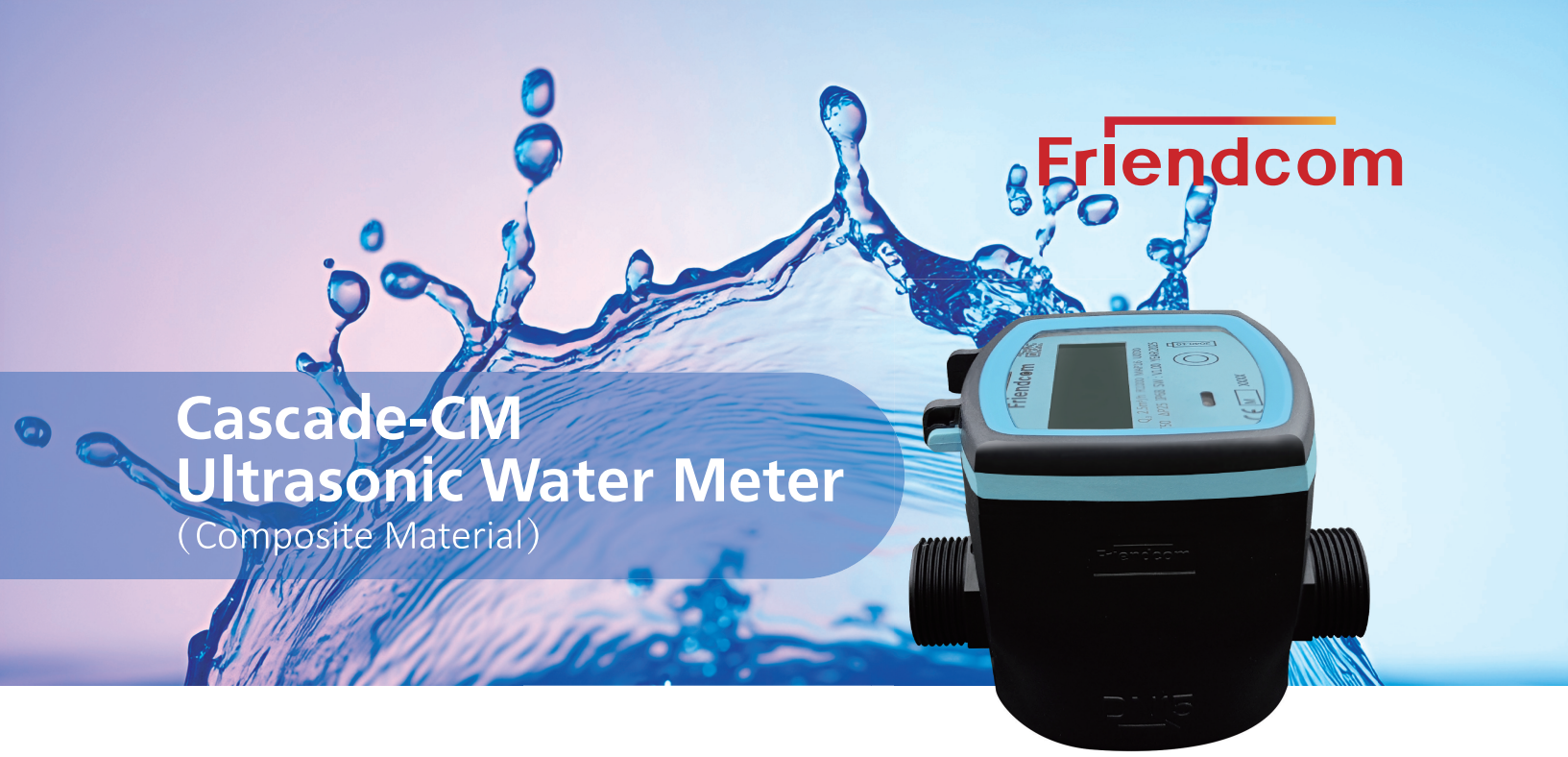




Technical Specifications

	DN15	DN20	DN25	DN32	DN40
Continuous Flow Rate Q3(m^3/h)	2.5	4	6.3	10	16
Overload Flow Rate Q4(m^3/h)	3.125	5	7.875	12.5	20
Transitional Flow Rate Q2(l/h)	5	8	12.6	20	32
Minimum Flow Rate Q1(l/h)	3.125	5	7.875	12.5	20
Starting Flow Rate(l/h)	1	1	1	3	3
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)	0.4				
Installation Orientation	H, V, H/V				
Backflow	Certified According to 2014/32/EU (MID)				
Relative Humidity	≤100				
Protection Level	IP68				
Water Meter Length(mm)	110/165	130/190	225/260	260	300

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Cascade-CM
Ultrasonic Water Meter
(Composite Material)

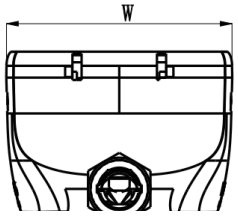
Features

- 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

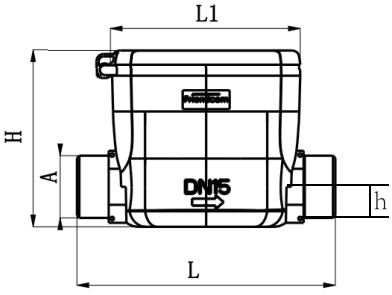
Optional

- 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



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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

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