



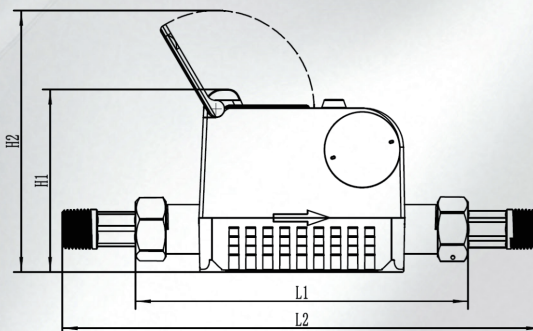
Ultrasonic Water Meter



FEATURES

- DN 15 to 25
- MID approved with dynamic range up to R 400
- IP 68 suitable for outdoor installations
- Remote meter reading via NB-IoT , LoRaWAN etc., access to AMI network
- Display with error and alarm codes including leakage detection
- Battery lifetime up to 16 years
- U0 / D0, no need for calming sections

DIMENSION



GENERAL INFORMATION

Ultrasonic Water Meter		
Medium temperature range	° C	0.1 ... +50
Ambient operating temperature		-5 ... +55
Ambient storage temperature		-5 ... +55 (>35 ° C max. 4 weeks)
Environmental class		O (Outdoors)
Meter body material		SS304/316L, Brass, Composite
Nominal pressure	MAP bar	16
Power supply		3.6V DC lithium batteries
Battery lifetime*		Up to 16 years
Communication Module		NB-IoT, LoRaWAN, wMBus, Cat 1, 4G.
Data storage		For errors, alarms and measuring values, data logging capabilities: each 5 min flow data 21 days, daily data 120 days, monthly data 10 years, 50 recent error datas, 2000 event datas.
Protection class		IP68
* Depends on local signal strength, configured online frequency each day and the ambient temperature at the installation.		

TECHNICAL DATA DISPLAY

Ultrasonic Water Meter	
Display indication	LCD, 11-digit, additional symbols/display counter/unit
Units displayed	Volume (m ³ + 4 decimal places)
Values displayed	Display test - volume - battery lifetime - firmware version - software checksum - flow - current/continuous/historical error - alarm status - high resolution volume - due date - due date volume - reverse volume - display counter - low battery indication - leakage indication - metrological log access - radio signal ON/OFF - alarm indication - and more display loop options to choose from.



TECHNICAL DATA

Nominal Diameter	DN	mm	15	15	20	20	25	25
Permanent flow rate	Q ₃	m ³ /h	2.5	2.5	4	4	6.3	6.3
Minimum flow rate	Q ₁	L/h	6.25	10.00	10	16	15.75	25.20
Dynamic (Q ₃ /Q ₁)	R		400	250	400	250	400	250
Overload flow rate	Q ₄	m ³ /h	3.125	3.125	5	5	7.875	7.875
Transitional flow rate	Q ₂	L/h	10	16	16	26	25.20	40.32
Starting flow rate		L/h	2	2	3	3	5	5
Max. Pressure Loss		bar	0.4	0.4	0.4	0.4	0.4	0.4
Overall length	L1	mm	110/165	110/165	130/195	130/195	225	225
Overall length with coupling	L2	mm	255	255	295	295	341	341
Height	H1	mm	98	98	98	98	98	98
Height	H2	mm	138	138	138	138	138	138
Width	B	mm	88	88	88	88	88	88
Connection thread on meter		Inch	G ¾	G ¾	G 1	G 1	G 1¼	G 1¼
Connection thread of coupling		Inch	R ½	R ½	R ¾	R ¾	R 1	R 1