

ADR SERIES ULTRASONIC WATER METER DESIGNED FOR SMART WATER SOLUTION



FEATURES

Proven Ultrasonic Technology





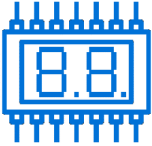
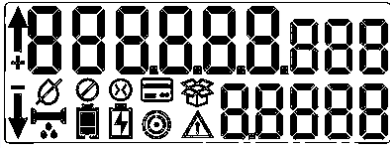







- Flow sensor based on proven ultrasonic measurement;
- Two ultrasonic transducers used to send sound signals with/against the flow;
- Not exposed to wear due to impure water;
- Reliability in the long run exploitation.

Non-revenue water reduction



- Constant monitoring of water consumption;
- Leakage control and report;
- Reliable billing;
- Reduction of non-revenue water consumption and expenses.

Accuracy	
	<p>High accuracy meter:</p> <ul style="list-style-type: none"> ➤ Accuracy class 2; ➤ No moving parts ensures the same accuracy during the entire lifetime; ➤ Low start flow down to 1 liter per hour provides measurement of very low flows; ➤ The flow velocity does not influence the meter accuracy.
Communication	
	<p>Flexible MultiRAT communication options include:</p> <ul style="list-style-type: none"> ➤ LoRaWAN, NBIoT, Wireless M-Bus for WAN; ➤ NFC, BLE as local interfaces.
Intelligent Alarms	
	<p>Supports the following alarm types:</p> <ul style="list-style-type: none"> ➤ Leakage; ➤ Burst; ➤ Dry; ➤ Reverse flow; ➤ Tampering. <p>Provides indication on the display.</p>
Data Registering and Storage	
	<p>The meter records:</p> <ul style="list-style-type: none"> ➤ Accumulated volume (hourly, daily, monthly), forward/reverse direction; ➤ Current rate of water flow in both directions; ➤ Leakage and tampering reports to analyze troubleshooting.
Display	
	<ul style="list-style-type: none"> ➤ LCD, 9 digits, easy readable; ➤ View of measurement data, states, info codes; ➤ WAN signal level indication. 

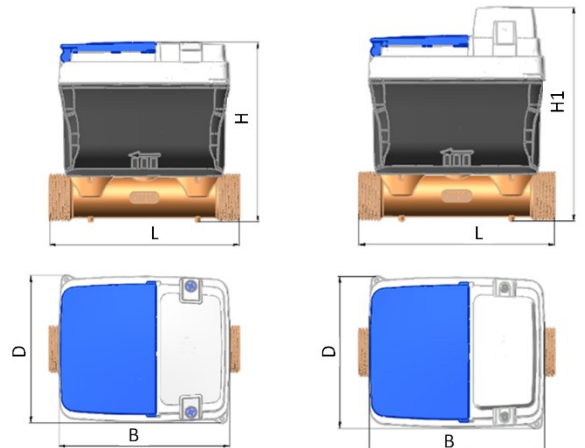
Measurement	
	<ul style="list-style-type: none"> ➤ Average flow rate measurement in forward and reverse directions; ➤ Temperature or pressure sensor; ➤ Dual temperature monitoring: water temperature and ambient temperature; ➤ Wide range target volumes.
Design	
	<ul style="list-style-type: none"> ➤ The meter case is made from durable composite material; ➤ Brass measuring pipe; ➤ The meter is equipped with intelligent power source comprising internal and external parts; ➤ Meter houses are sealed; and fully water resistant; ➤ IP68 Protection class; ➤ Display to view measurement data and alarms; ➤ Easy mounting onto a water pipe; ➤ Suitable for outdoor installation.
Intelligent Power Source	
	<p>Flexible power source options</p> <p>Internal power supply:</p> <ul style="list-style-type: none"> ➤ One or optionally two C type batteries; ➤ Backup battery 1/2 AA; ➤ Super Pulse Capacitor SPC <p>External power supply:</p> <ul style="list-style-type: none"> ➤ Two type AA batteries; ➤ Battery compartment.
Standards	
	<p>Compliant with:</p> <ul style="list-style-type: none"> ➤ ISO 4064 (OIML R49); ➤ MID Directive (2014/32/EU).
Sealing	
	<p>Available seal options:</p> <ul style="list-style-type: none"> ➤ Two security seals; ➤ Two security self-destructive stickers.

TECHNICAL SPECIFICATIONS



Characteristic	Value					
Model	ADR15		ADR20		ADR25	
Nominal diameter	DN15		DN20		DN25	
Thread	G3/4"		G1"		G1¼"	
Permanent flow rate, Q3 (m³/h)	1.6	2.5	2.5	4	4	6.3
Dynamic range Q3/Q1	R250 R400 R800	R250 R400 R800 R1600	R250 R400 R800	R250 R400 R800 R1600	R250 R400 R800	R250 R400 R800 R1600
Installation sensitivity class	U0/D0					
Sensitivity threshold (l/h)	1					
Temperature class	T50 (0.1 – 50 °C)					
Storage temperature	From -25 to 70 °C					
Metrological class	Class 2					
Maximum Admissible Pressure (MAP), bar	16					
Pressure loss	Δp40					
Protection class	IP68					
Environmental class	E2, M1, O					
Installation	Horizontally/ vertically/ at angle					
Interfaces	BLE v5.3 NFC					
WAN Communication	Multi Radio Access Technology (MiltiRAT) Different frequency ranges (optionally): EU868, AS923, AS915.					

Dimensions (mm)	ADR15	ADR20	ADR25
Measuring pipe length, brass (L)	110/165	130/195	190/225
WM dimensions (HxDxB) without external power source	103x85x99	109x85x99	116x85x99
WM dimensions (H1xDxB) with external power source	119x85x99	125x85x99	132x85x99



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