

ADR15-V WATER METER WITH INTEGRATED FLOW CONTROL VALVE



FEATURES

Proven Ultrasonic Technology





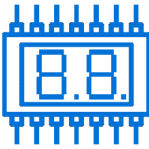
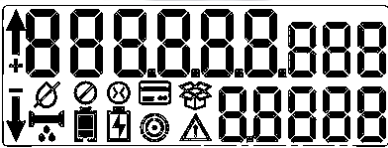







- Flow sensor based on proven ultrasonic measurement;
- Two ultrasonic transducers used to send sound signals with/against the flow;
- Not exposed to wear due to impure water;
- Reliability in the long run exploitation.

Non-revenue water reduction



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

Accuracy	
	<ul style="list-style-type: none"> ➤ High 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 rate does not influence the meter accuracy.
Integrated flow control valve	
	<ul style="list-style-type: none"> ➤ Modulating the flow to reduce consumption. ➤ Shutting off water supply in case of unpaid bills or leaks/bursts. ➤ Water outage for configurable period. ➤ Managing water supply remotely
Anti-tampering policy	
	<p>Anti-tampering features:</p> <ul style="list-style-type: none"> ➤ Meter case opening sensor ➤ Magnetic field sensor ➤ Accelerometer unit <p>Alarms are registered and indicated on the display:</p> <ul style="list-style-type: none"> ➤ Leakage; ➤ Burst; ➤ Dry; ➤ Reverse flow; ➤ Tampering.
Communication	
	<p>Flexible communication options include:</p> <ul style="list-style-type: none"> ➤ LoRaWAN, Wireless M-Bus for WAN; ➤ NFC, BLE as local interfaces.
Display	
	<ul style="list-style-type: none"> ➤ LCD, 9 digits, easy readable; ➤ View of measurement data, states, info codes; ➤ WAN signal level indication ➤ Batteries status indication. 
Measurement	

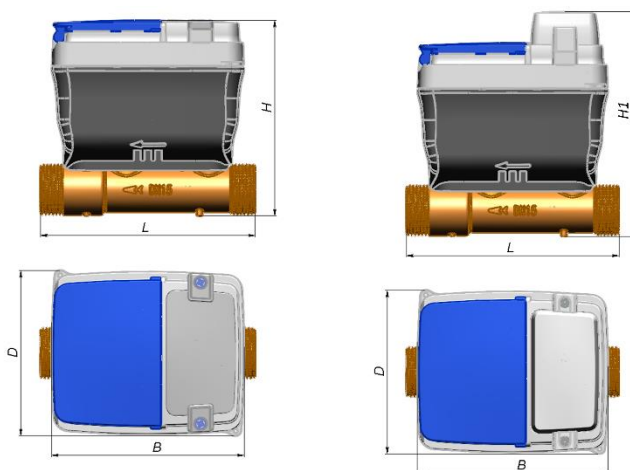
	<ul style="list-style-type: none"> ➤ Average flow rate measurement in forward and reverse directions; ➤ Temperature or pressure sensor; ➤ Dual temperature monitoring: water temperature and ambient temperature; ➤ Wide range target volumes.
Intelligent Power Source	
	<p>Flexible power source options</p> <p>Internal power supply:</p> <ul style="list-style-type: none"> ➤ C type battery ➤ 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
Data Registering and Storage	
	<p>The meter record:</p> <ul style="list-style-type: none"> ➤ Accumulated volume (hourly, daily, monthly) in forward and reverse direction; ➤ Current rate of water flow in both directions ➤ Leakage and tampering reports to analyze troubleshooting
Design	
	<ul style="list-style-type: none"> ➤ The meter case is made from durable composite material; ➤ Brass measuring pipe; ➤ Meter houses are sealed and fully water resistant; ➤ IP68 Protection class; ➤ Metrological test output to control the metrological parameters; ➤ Display to view measurement data and alarms; ➤ Easy mounting onto a water pipe; ➤ Suitable for outdoor installation.
Sealing	
	<ul style="list-style-type: none"> ➤ Available seal options: two security seals; ➤ two security self-destructive stickers.

TECHNICAL SPECIFICATIONS



Characteristic	Value	
Model	ADR15-V	
Nominal diameter	DN15	
Thread	G3/4"	
Permanent flow rate, Q3 (m³/h)	1.6	2.5
Dynamic range Q3/Q1	R800	R800
Installation sensitivity class	U0/D0	
Sensitivity threshold (l/h)	1	
Temperature class	T30/T50 (0.1 - 50 °C)	
Storage temperature	From -25 to 70 °C	
Operating temperature	From -25 to 55 °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	WAN Communication Dual stack LoRaWAN + Wireless M-Bus Different frequency ranges: EU863-870, US902-928, AU915-928, AS923	
Standards	ISO 4064 (OIML R49) MID Directive (2014/32/EU)	

Dimensions (mm)	ADR15-V
Measuring pipe length, brass (L)	110-225
WM dimensions (HxDxB) without external power source	105x85x99
WM dimensions (H1xDxB) with external power source	121x85x99



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