

ARROW MVM

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The ARROW MVM is an electronic inductive sensor combined with a radio transmission unit. It is designed to register water consumption. The ARROW MVM mounts onto Maddalena positive displacement water meters.

The ARROW MVM is designed to transmit data to a remote Wireless M-Bus system.

The ARROW MVM is equipped with inductive sensors designed for detecting and counting the revolutions of the meter's pointer. The sweep hand is made of a conductive material especially designed for signal dumping.

The ARROW MVM detects the flow direction and is unaffected by vibrations, thus ensuring that the electronic and mechanical reading match. The inductive sensors combined with a microprocessor enable detection of sensor removal.

The ARROW MVM is also insensitive to magnetic fields.

The radio unit transmits data using mode T1 in accordance with Standard EN 13757.

Data may be collected either with a mobile or fixed receiving system like ARROW Collect loaded with the ARROW Mobile or ARROW Fixed software.

The device is programmable via bi-directional radio communication with ARROW Collect and is activated using a special key.

For more information, see the software user manual.

TECHNICAL FEATURES

TYPE	Microprocessor, inductive sensor	
POWER SUPPLY	3 V, lithium battery	
BATTERY SERVICE LIFE	12 years + 2- year storage (average battery service life under standard conditions, not guaranteed).	
	Average battery service life:	
	Temperature	% of service life
	-15 °C to 0 °C	10%
0 °C to +30 °C	80%	
+31 °C to +55 °C	10%	
MAX. POINTER ROTATIONS	10 revolutions per second	
STANDARD	EN 13757	
RADIO	868.95 MHz, mode T1 , ARROW frame	
CERTIFICATES/APPROVALS	<ul style="list-style-type: none">• CE in compliance with the European Directive on Electromagnetic Compatibility (EMC)• R&TTE	
ENVIRONMENTAL CONDITIONS	Working temperature: -10 °C ÷ 55 °C Storage temperature: -20 °C ÷ 70 °C	
ENVIRONMENTAL CLASS	C	
ELECTROMAGNETIC CLASS	E2	
PROTECTION CLASS	IP68	