



ADDRA WATER METER WITH INTEGRATED WATER VALVE



The ADD GRUP smart water meter with integrated water valve is based on the proven ultrasonic technology, advanced water supply management and leakage control. The device maintains its high accuracy throughout its entire lifetime of up to 16 years and allows integration in AMI systems within water/heat/gas/electricity complete 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 by built-in shut-off valve
- Leakage reporting;
- Reliable billing;
- Reduction of non-revenue water consumption and expenses.

Accuracy



- Accuracy class 2;
- No moving parts ensures the same accuracy during the entire lifetime;
- Low start flow down to 2 l/hour provides measurement of very low flows;
- The flow velocity does not influence the meter accuracy.

Communication



Flexible communication options include:

- RF for WAN;
- Bluetooth as local interface

Intelligent Alarms



Supports alarm types:

- Leakage;
- Burst;
- Dry;
- Reverse flow;
- Tampering.

Indication on the display.

Design



- The case is made from durable composite material;
- Brass or composite measuring pipe;
- Integrated shut-off water valve;
- Houses are sealed and fully water resistant;
- IP68 Protection class;
- Metrological test output to control the metrological parameters during verification;
- Display to view measurement data and alarms;
- Easy mounting onto a water pipe;
- Suitable for outdoor installation.

Data Registering and Storage



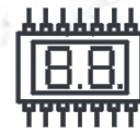
- The meters record hourly, daily, monthly data on water consumption;
- Leakage and tampering reports to analyze troubleshooting;
- Daily data storage capacity is not less than 24 months.

Battery



- The meter is equipped with a lithium battery;
- Battery lifetime up to 16 years under normal operating conditions.

Display



- LCD, 8 digits, easily readable;
- View of measurement data, states, info codes;
- WAN signal level indication.

Measurement



- Dual temperature monitoring: the meter records the ambient temperature and the water temperature;
- Target volumes can be selected from a wide range;
- Max & min flows depend on the chosen configuration.

Integrated shut-off water valve



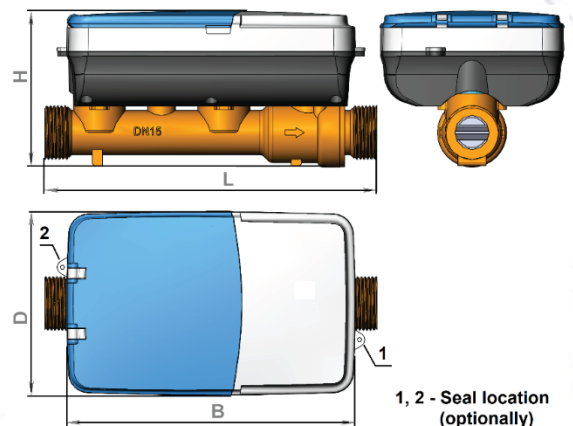
- Modulating the flow to reduce consumption.
- Shutting off water supply in case of unpaid bills or leaks/bursts.
- Water outage for configurable period.
- Managing water supply remotely.

TECHNICAL SPECIFICATIONS

| Characteristic | Value | |
|--|--|-----------|
| Model | WMV15 | WMV20 |
| Nominal diameter | DN15 | DN20 |
| Thread | G3/4" | G1" |
| Permanent flow rate, Q3 (m³/h) | 1.6 2.5 | 2.5 4 |
| Dynamic range Q3/Q1 | R250/R400 | R250/R400 |
| Installation sensitivity class | U0/D0 | |
| Temperature class | T50 (0.1 - 50 °C) | |
| Storage temperature | From -25 to +70 °C | |
| Metrological class | Class 2 | |
| Maximum admissible pressure (MPa) | 1.6 | |
| Pressure loss | Δp40 | |
| Protection class | IP68 | |
| Environmental class | E1, M1 | |
| Installation | Horizontal or vertical | |
| Battery | Lithium battery, up to 16 years lifetime in case of meter reading once per day | |
| Interfaces | Bluetooth | |
| WAN Communication | WM-BUS or LoRaWAN Different frequency ranges (optionally): 433 MHz, 868 MHz, 915 MHz, 923 MHz. | |
| Metrological LED | 10 000 imp/m ³ | |
| Standards | ISO 4064 (OIML R49) MID Directive (2014/32/EU) | |

DIMENSIONS

| Pipe diameter | Dimensions | WMV with brass pipe |
|---------------|------------|---------------------|
| D15 | L | 165 |
| | H | 78 |
| | D | 92 |
| | B | 144 |
| D20 | L | 195 |
| | H | 82 |
| | D | 92 |
| | B | 144 |



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