

# Model UWM



## Ultrasonic Water Meter

UWM is designed to measure the real flow rate and real water passing through the pipeline.

## Standards Compliance

ISO4064:2014/ OIML: R49-2013

## Feature:

- Ultrasonic water meter, No move part design
- Low starting flow rate
- Horizontal and Vertical installation
- High accuracy level, digital display (10 year battery)
- No air measurement



## Long lifetime/stable Accuracy

With innovative design, UWM holds a lifetime of 10+ years. This features a maintenance-free quality in its full life time which can significantly reduce the management works of water supply companies.

## Working Conditions

- Water temperature:  $\leq 50^{\circ}\text{C}$  for cold water meter
- Water pressure:  $\leq 1.6\text{MPa}$  (16bars)

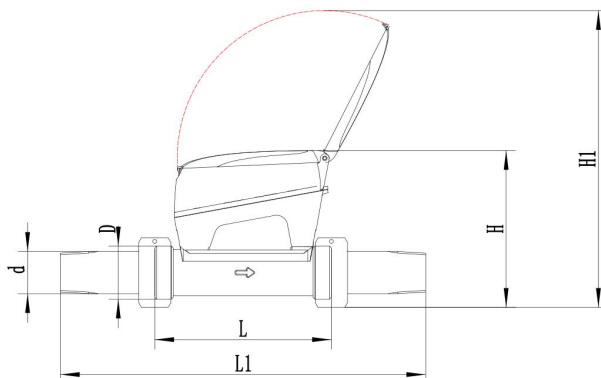


ASM

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|                              |         |                                       |      |
|------------------------------|---------|---------------------------------------|------|
| DN(mm)                       |         | 15                                    | 20   |
| Size(inch)                   |         | 1/2"                                  | 3/4" |
| Q4(m³/h)                     |         | 3.125                                 | 5    |
| Q3(m³/h)                     |         | 2.5                                   | 4    |
| R250                         | Q2(1/h) | 16                                    | 25.6 |
|                              | Q1(1/h) | 10                                    | 16   |
| R400                         | Q2(1/h) | 10                                    | 16   |
|                              | Q1(1/h) | 6.25                                  | 10   |
| Battery                      |         | 3.6V<br>Li-battery                    |      |
| EMC                          |         | E1                                    |      |
| Environmental Classification |         | M1                                    |      |
| Protection Class             |         | IP68                                  |      |
| Max. Reading (m³)            |         | 99999                                 |      |
| Min. Reading (Liter)         |         | 0.01                                  |      |
| Max. Pressure (bar)          |         | 16                                    |      |
| Pressure Loss ( $\Delta P$ ) |         | 63                                    |      |
| Max. Temperature             |         | T50                                   |      |
| Communication technology     |         | Wired M-bus<br>Lora/LoraWan<br>NB-IoT |      |
| Pulse Output                 |         | 1 or 10 or 100<br>liters/pulse        |      |

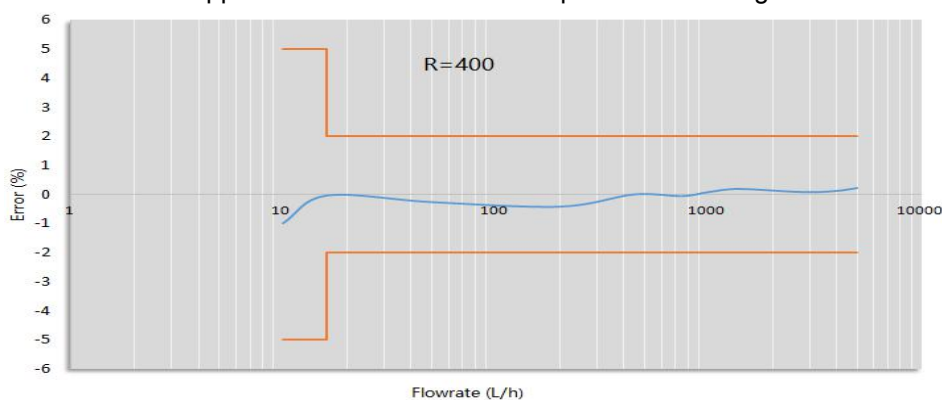
## Dimension



|                     |         |         |
|---------------------|---------|---------|
| DN(mm)              | 15      | 20      |
| Size(inch)          | 1/2"    | 3/4"    |
| Length(L)           | 110/165 | 110/190 |
| Height(H)           | 94.2    | 97.5    |
| Connecting Thread D | G3/4B   | G1B     |

## Maximum Permissible Error

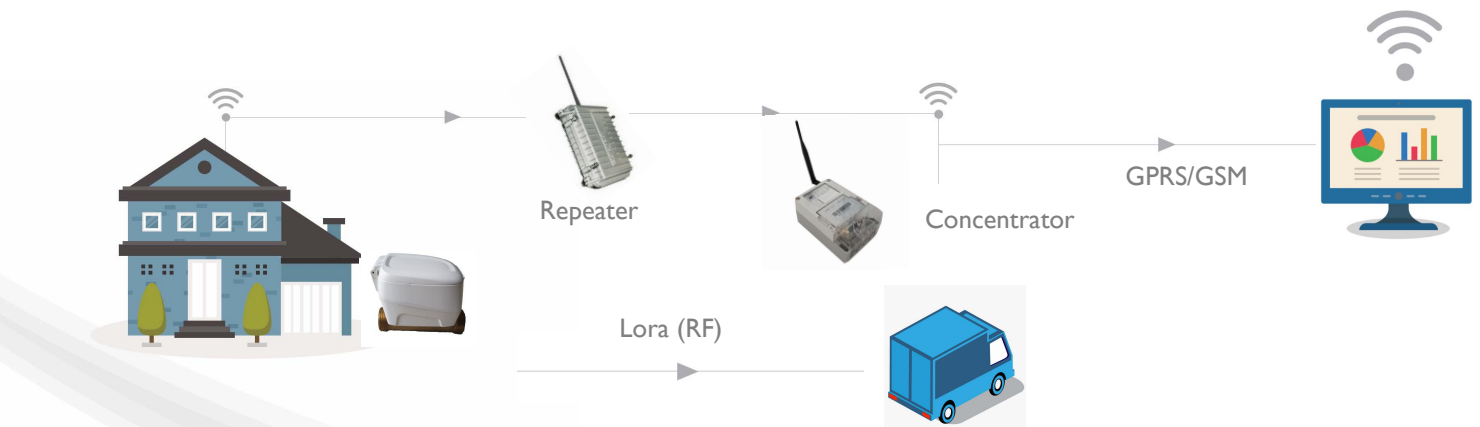
- In the lower zone from Q1 inclusive up to but excluding Q2 is  $\pm 5\%$ .
- In the upper zone from Q2 inclusive up to and including Q4 is  $\pm 2\%$ .



# AMR Device

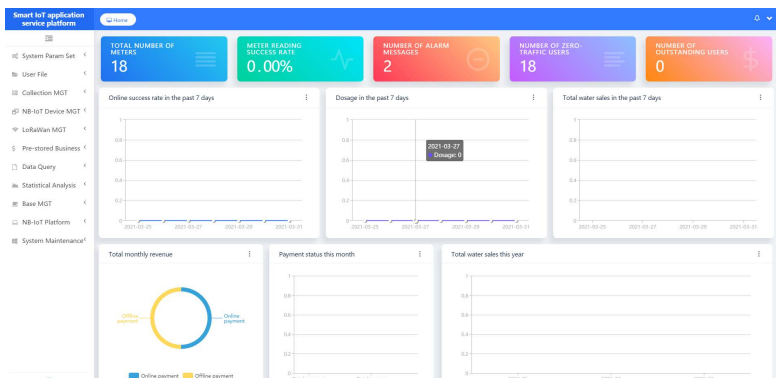
## How to Collect data from water meters

Remote reading water meters adopt Lora technology for sending data to Concentrator, and also could receive data walk by.



## Data Management Platform

1. Data can be collected by Concentrator (Lora) and operated in Final management software



2. Data can be collected by Handheld and transferred to Final management software or other versions.

| Task               | Total | Success | Failed | No Read |
|--------------------|-------|---------|--------|---------|
| Task20210326174426 | 2     | 0       | 2      | 0       |

| Meter No.     | Customer No. | Customer Name | Customer Address | Meter Reading | Read Date           | Read Status |
|---------------|--------------|---------------|------------------|---------------|---------------------|-------------|
| 0166223456780 | 05740002     | 05740002      | 902              | 100           | 2021-03-26 17:46:58 | Success     |
| 0166909090903 | 05740009     | 0312          |                  | 100           | 2021-03-26 17:51:33 | Success     |

