



Watasensor

Smart Water Valve Wasservalue™

Monitor water usage, detection of the water leakage and pipe burst and real-time shutoff valve to prevent water damage, and winterize capability to prevent water and pipes from freezing in winter.

Overview

The Wasservalue™ is a smart water valve based on an ultrasonic water measurement technique that provides users with a new way to monitor water usage and critical protection against water damage. It can detect water leakage and a pipe burst in real time and instantly shut off the water supply to mitigate costly water damage. Upon detecting water leakage and pipe burst, a notification is sent over the Internet to the user's smartphone via WIFI or LTE cellular networks. In addition, the Wasservalue also includes a built-in Lora network which allows the Wasservalue to control and manage up to eight shut-off sub-valves. The combined Wasservalue and shutoff sub-valves provide the unique winterize capability to drain water automatically via users' smartphones. This winterizing prevents water and pipes from freezing in winter. It's powered by AC with a rechargeable lithium battery backup for up to four days, in case of a power outage. It's a compact and streamlined water valve that can be installed into the main water line in any direction. It provides you peace of mind, a way to use water more efficiently, and seamlessly interacts with your Smartphones, and tablets over the Internet anytime and anywhere

Key Features

Measure the flow rate and cumulative flow rate of water in a closed full pipe based on the ultrasonic measurement technique

- High measurement accuracy and reliable
- No wear and no moving parts, low head loss
- Automatic valve close immediately on detection of water leakage or pipe burst

Meter sizes

- ¾", 1", 1-1/4", 1-1/2"

Pipe material

- Copper

Shutoff valve

- Stainless ball valve

Working conditions

- Water temperature: 0~30° C
- Electromagnetic environment: Class E1

Register housing & lid

- PPS plus fiberglass

Installation in almost any direction

Implementing standards

- ANSI/AWWA C715
- NSF/ANSI standards 61&372

Networks

- WiFi 802.11 a/b/g/n and optional LTE CAT M1
 - Two-way communication with cloud base server (AWS)
- Lora network
 - Manage and control up to eight subordinate shutoff valves
 - Support winterize capability to prevent pipe and water meter from freezing during winter.

Buttons

- Open/Close shutoff valve manually
- Mode

LED status 802.11 a/b/g

AC power

- 110-240V and 50-60Hz
- Rechargeable lithium battery backup for up to 4 days in case of a power outage.

Agency listings

- FCC & CE

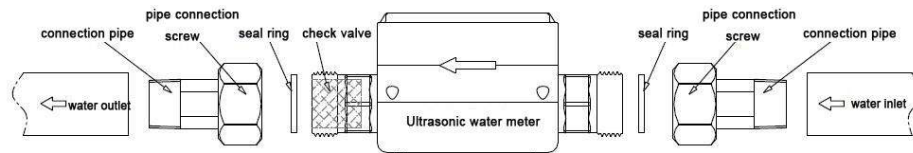
App compatibility

- iOS 11 or later, compatible with iPhones or iPads,
- Android 6 or later, phones or tablets



Installation

The water meter can be installed horizontally or vertically. It can be installed in the water meter well in addition to the indoor and water meter boxes. **The installation should be such that the water outlet of the pipeline is higher than the upper plane of the water meter, ensuring that the pipe section of the water meter is always in a full state.**



Installation diagram

Installation notes:

To ensure the safety of use, please read the following precautions carefully before operation. Watasensor Inc. is not responsible for any damage or accident caused by illegal installation.

1. Before installation, please make sure that the surrounding environment is non-toxic and away from dangerous, irritating, and corrosive sources of danger.
2. In the installation of explosive and flammable materials, effective protective measures shall be taken by professional protection regulations.
3. Do not touch the nozzle with your hand to avoid the finger being damaged by burrs or crushed;
4. Thoroughly flush the pipeline before installing the water meter.
5. Pay attention to the size of the water meter and ensure that there is enough installation and maintenance space on site.
6. The side of the water meter points in the direction of the water flow along the arrow, the liquid crystal, and the swipe area face the direction of easy observation and card swiping operation, and the watch body can be tilted.
7. Water meters are only allowed to be installed and disassembled by trained personnel.

User cases

Home owners worry about the house and property when they are away. The ultrasonic measurement technique provides users a new way to monitor water usage, and critical protection against water damage, delivering accurate usage data in real-time. It's simple to install and mounts to your main water line in minutes. It can detect water leakage and a pipe burst in real-time and instantly shut off the water supply to mitigate costly water damage. Upon detection of water leakage and pipe bust, a notification is also sent over the Internet to the user's smartphones via cellular and broadband network. The combined Wasservalue and associated shutoff sub-valves provide a unique winterize capability to drain water automatically. This unique capability prevents pipe and water meters from freezing during winter.

The client apps

Get leak detection alerts in real-time and take action to protect your home. Customize alerts to fit your water habits and adjust sensitivity while you are away. Our app lets you track usage by the hour and compare over time, helping you become the most water-efficient house on the block.

Homeowners

With easy self-installation and setup, homeowners can customize leak alerts and prevent water damage. They can also use the app to track water usage and find ways to conserve.

Professionals

Contractors and plumbers can suggest our easy-to-install monitor as extra protection from water damage, an upgrade to existing water systems, or as part of a smart home package.

Service Providers

Smart-home companies, and home insurance companies can suggest Wasservalue as a way to help customers protect their property and prevent costly water damage.



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