



## WaterSentinel™

*Pump protection system and water supply management*



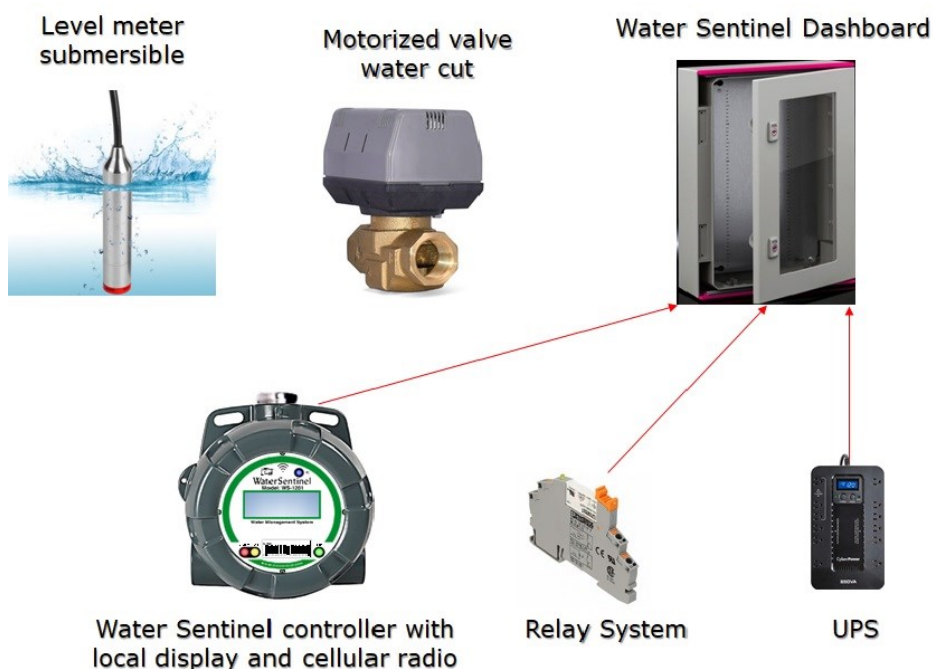
## DESCRIPTION

**WaterSentinel** is an automated solution for the implementation of water rationing plans in buildings and condominiums, the supervision of the water level in the tanks and the protection of the hydropneumatic system associated with the water supply. **WaterSentinel** performs automatic control of water rationing by schedule and/or by pumping cycles, as well as measuring and reporting the water level in the main tank.

**WaterSentinel** detects when water is entering the main tank from the public network and notifies users, it also estimates water consumption and predicts the estimated emptying time, it also protects the pumps against empty work and/or prolonged work due to water leaks.

The system incorporates a local LCD screen to program rationing schedules and view the level in the tank and the alarm and fault conditions of the system. Optionally, a cellular radio, depending on the model, to report through text messages to authorized users: the level of the tank, the rationing hours, the entry of water into the system and the aforementioned fault conditions.

## Parts of the WaterSentinel





# OPERATIONS MODES

The **WaterSentinel** has two modes of operation:

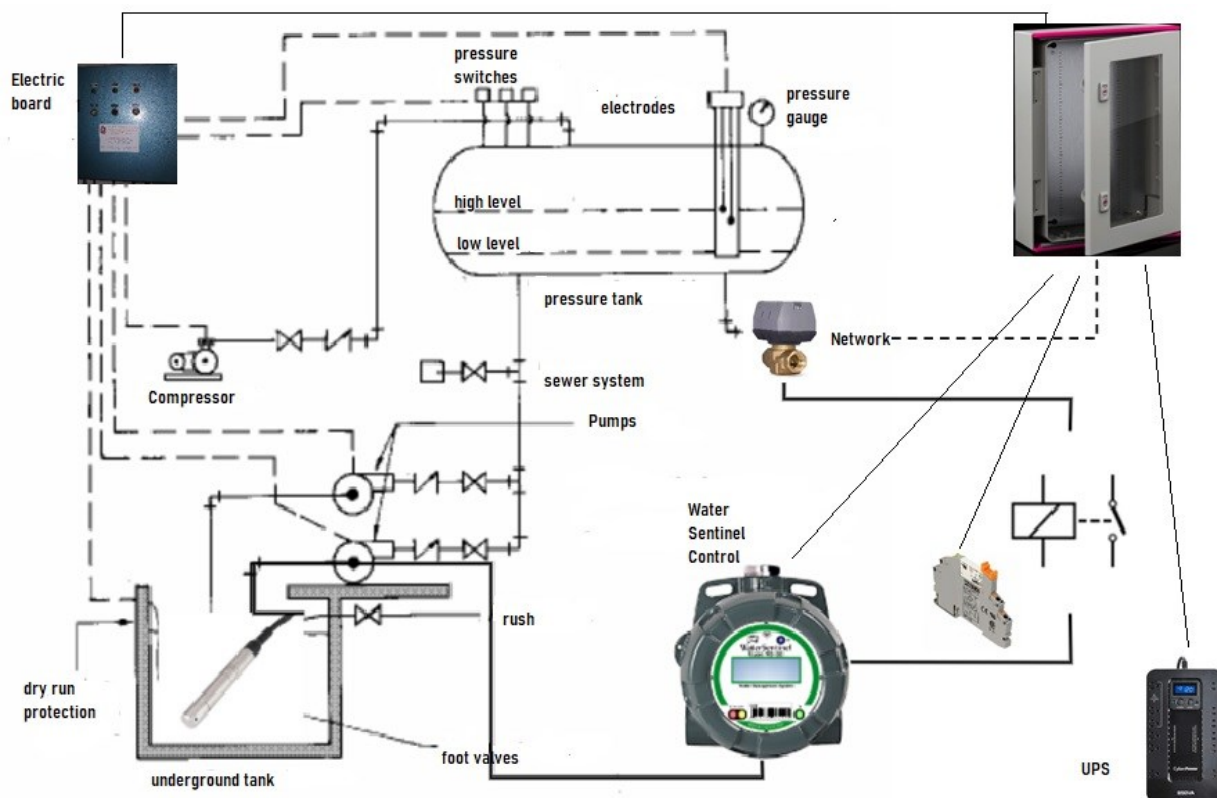
## Manual mode:

In this mode, it is the user who decides when to enable or not the water supply, either through a valve or by enabling the pumping system.

## Automatic mode:

The water supply is enabled according to the configured rationing schedules activated according to the level of the tank and water consumption (Smart Rationing).

- \* The system accepts up to 3 ration programs for days of the week and up to 5 hourly intervals each day.
- \* It is possible to limit the number of pump work cycles during rationing hours.





## BENEFITS

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- It allows automatic control of water rationing, thus saving costs in personnel assigned to this end and improving precision in rationing schedules.
- By measuring water consumption and detecting water entering the tank, it allows optimal planning of rationing schedules, avoiding unnecessary restrictions on water consumption.
- Lowers maintenance costs by protecting pumps from dry-running damage.
- Alert about leaks and/or excessive water consumption, which avoids inconvenience to users due to running out of water without prior notice, and prevents possible damage due to water spillage.
- Alerts about the need to replenish the system air, which results in less wear on the pumps and therefore the associated maintenance costs.
- Increases water availability by enabling smart rationing, by measuring tank level and limiting consumption only when needed.
- It automatically keeps users informed about rationing hours, which facilitates the planning of activities, minimizing administrative costs for the condominium.

## CONFIGURATION

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- Alarm thresholds and rationing hours can be modified by authorized users once the system is installed.
- The system can provide high and very high, low and very low water level alarms. Alarms can be configured for pump work cycle limits which allow us to detect leaks and/or excessive water consumption.
- Alarms can be set for very short pump operating time, which is an indication that the air in the hydropneumatic tank has been lost and must be replaced.

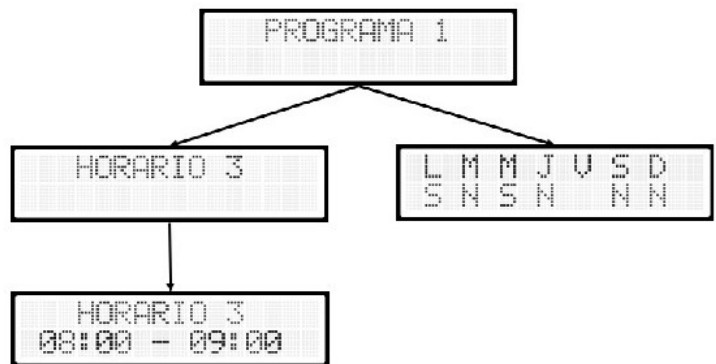


# CONFIGURATION

## Configuration Mode



## Ration hours



## Control Mode

08:15:28  
29/10/2019

Date and time

NIVEL: 0.40 m  
NIVEL BAJO

Water levels, alarms and faults

BOMBA: HABILITA.

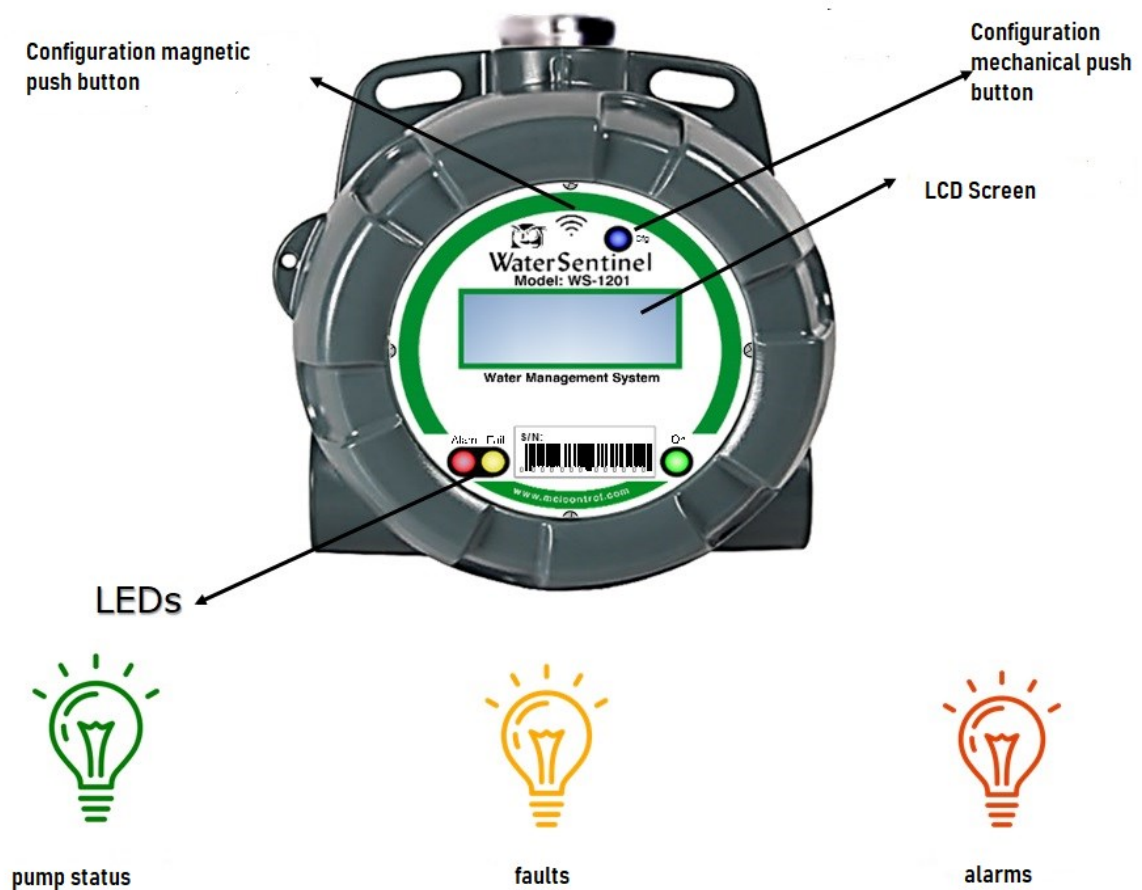
Pump status



## HMI

The **WaterSentinel** has a user interface consisting of a two-line LCD display and three LED indicators, through which the user can view system information such as tank level, alarm conditions, fault conditions, of the system, etc. You can also configure the system parameters, such as ration schedules and alarm thresholds, among others.

It is also possible to configure the communication via text messages of the different levels, possible failures and if there is a water supply from the public water network. With this tool, managers can access information on the supply system to the building.










## CONTACT INFO:

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