



THE AKWA* WATER ALARM CONTROLLER

Is designed to supervise and control all the AKWA system components, including the Wireless leak sensor, the Vacancy sensors and the Master valve.

The Water Alarm controller is the main component of AKWA.

This supervision and control unit is essential for the proper functioning of the Water Alarm system. The communication link between the controller and the Wireless leak sensors is bidirectional and the communication protocol used is a long-range radio signal (433.5 MHz.) with a signal over 600 linear feet.

The controller allows you to:

- Validate if the wireless leak sensors are present and active
- Validate the level of the sensor's batteries
- Validate the status of the alarms (false or real)
- Validate the status of the Master valve

The Water Alarm controller has several roles:

- **Close** the Master valve once the Vacancy sensor has confirmed the inactivity within the property and after the Wireless leak sensors have reported the presence of a puddle.
- **Program** the Wireless leak sensors at the time of the initial configuration of the zones.
- **Identify** areas that have reported a leak and identify the status of the Master valve (open or closed).
- **Reset** the system once the water leak has been managed and the risk has been eliminated.
- **Control** a Flow sensor that allows you to manage various external applications (irrigation system, swimming pool, etc.).
- **Report** by sending an email notification and /or text message.

FALSE ALARMS

As an example, if a wet mop is in contact with a Wireless leak sensor, the sensor will send a signal to the controller that will send a signal to close the Master valve. If the alarm is false, the controller reopens the valve and the user will not receive any notification.

The Water Alarm controller always analyzes the quality of a signal before generating an alarm and a notification. All notifications (email or text message) are sent in Wi-Fi mode by the controller.

The AKWA system can be installed in residential units or commercial spaces.

SPECIFICATIONS

WI-FI CONTROLLER

3 years warranty

GENERAL

Nb of zones	99
Nb of leak sensors	79
Nb of remote controls	10
Nb of vacancy sensors	10

CHARACTERISTICS

Size	L 158 mm (6,25") x L 101 mm (3,98") x H (34,85 mm (1,37) "
Mounting point	Wall mount
Color	E99 shell white

RADIO RECEIVER

Frequency	433 MHz crystal
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WI-FI

Frequency	2400-2483.5 MHz
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POWER RATING

Rating	12 VDC at 1 amp
Battery	9,6 volts DC 2300 mAh
Certification	FCC/IC

GENERAL

Nb of zones	99
Nb of leak sensors	79
Nb of remote controls	10
Nb of vacancy sensors	10

CHARACTERISTICS

Size	L 158 mm (6,25") x L 101 mm (3,98") x H (34,85 mm (1,37) "
Mounting point	Wall mount
Color	E99 shell white

LORA RECEIVER

Frequency	902 MHz to 928 MHz
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WI-FI

Frequency	2400-2483.5 MHz
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POWER RATING

Rating	12 VDC at 1 amp
Battery	9,6 volts DC 2300 mAh
Certification	FCC/IC

LORA CONTROLLER

3 years warranty