

AJAX-WS-15-W

Ajax - White Wireless WaterStop with 15/15" mm Thread

Product Overview

Ajax - White Wireless WaterStop with 15/15" mm Thread, Turn Water off in 5 seconds, Battery Life up to 3 years, Compatible with cold and Hot Water pipes, Electric actuator, Up to 8.5 nm Torque, Up to 10 bars operating Pressure, 4x CR123A Battery, Up to 3 years of Battery life.



Specifications

Features:

Not a drop of problems

WaterStop automatically shuts off the water in 5 seconds at a facility with an Ajax security system if LeaksProtect or a third-party water leak detector is triggered. The device combines a high-quality valve and a powerful electric actuator. You can control WaterStop and check its status from anywhere in the world - all you need is an Internet connection and an Ajax app. You can also create a scenario to shut the water off at a specific time or when arming the system.

Discover WaterStop

- 4 mounting positions
- Water shut-off in 5 seconds
- RuB valve included

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Product Specification Sheet

- ISO 5211 standard
- 1" (DN 25)
- ¾" (DN 20)
- ½" (DN 15)
- Up to 1,100 m range of communication with an Ajax hub
- Up to 3 years of battery life
- Compatible with cold and hot water pipes
- Jeweller radio communication
- Mounting the electric actuator without additional tools
- Automatic stuck prevention with scenarios
- Automation scenarios
- Electric actuator protection against unauthorized dismantling
- Button and lever to shut off the water manually
- Informative in-app notifications

Private residence

Be sure that your home is under the care of Ajax. WaterStop shuts off the water supply when necessary. In an emergency, users and the security company are instantly aware of the water leak at the premises. Forget all your worries about property damage with in-app control and automation scenarios.

Public space

In offices, libraries, or malls, the network of leak detectors and shutoff valves will help eliminate flooding and prevent high-cost consequences. The incident can be localized without disturbing the comfort of employees and visitors. The management will know exactly when and where the water leak happened to request the plumbing and cleaning services and navigate them to the scene.

Industrial premises

An Ajax system can control up to 200 leak detectors and shutoff valves. With the technologies of long-range wireless communication and outstanding battery life, it is easy to build a large water leak prevention network covering massive industrial facilities. Every leak can be eliminated and localized automatically without stopping production.

Discover future-proof hardware

- Electric actuator
- Button to control the water supply
- Locker to mount electric actuator without tools
- Mounting platform with lever for manual shutoff
- RuB valve

Water shut-off in 5 seconds

WaterStop is equipped with a powerful actuator of up to 8.5 N•m torque. This is enough to shut off even a stuck-up valve without the risk of damaging it. Under normal operating conditions, WaterStop shuts off the water in 5 seconds after the command or automatically by scenario whenever LeaksProtect or a third-party sensor detects flooding. In a setting with a ¾-inch pipe and 2.5 bar of pressure in the water supply system, less than 1 liter of water will leak out.

Inside the water leak prevention system based on Ajax, every device operates either on pre-installed batteries or has a backup power supply in case of a blackout. The system monitors the facility 24/7, giving you complete peace of mind that the property is protected.

- Shuts even a stuck-up valve
- Suitable for facilities with unstable or no power supply

Protected on every level

WaterStop is suitable for controlling both hot and cold water supplies and is ready to operate in challenging environments. With additional protection, WaterStop withstands overcurrent and notifies about overheating, making it impossible for the electric actuator to fail even when the shutoff valve is stuck.

One-stop solid brassware

WaterStop is available in three versions with different valve options: ½" (DN 15), ¾" (DN 20), or 1" (DN 25). Those are the most common sizes used to cover any demand, from residential to business facilities. Also, the WaterStop electric actuator is compatible with all ball valves that meet the ISO 5211 standard. So when it comes to specific tasks and sizes, a plumber installs an available on every market compatible valve, and the installation engineer easily connects the electric actuator.

Installation without any construction involved

The myth about anti-flood systems being difficult to install is busted. Ajax minimized an expensive, long, and dusty experience for clients and professionals. Cutting-edge hardware and software engineering allowed us to implement advanced capabilities with significant autonomy in a compact size. Miniature Ajax water leak detectors suit hard-to-reach places and do not require enclosure disassembling - they can be installed on a horizontal surface without attaching. The shutoff valve is installed in line with an existing plumbing system. The actuator unit does not require wires and fits limited spaces, having four possible installation positions towards the valve.

Batteries

No additional cable routing is required: WaterStop is autonomous and does not depend on the 110 or 220 V~ grid. With a 3-year battery life and no wires, the installation process takes much less time and effort. Ajax apps will notify an installation engineer and users about the low battery level in advance. The batteries are replaceable - so after three years, the installer pops the new ones, and WaterStop continues to operate as usual.

- Up to 3 years of operation with pre-installed batteries
- In-app low battery warning
- Replaceable CR123A batteries

External power supply

When a constant shut-off valve operation is required or the installation place uses extreme temperatures, the batteries can discharge faster. An option to connect a 9-12 V--- power supply will come in handy, eliminating frequent battery replacement and reducing service costs. And the pre-installed batteries will serve as a backup, so even in a power outage WaterStop continues to operate without any problem.

- 9-12 V--- power supply connection
- Pre-installed batteries as a backup power source

Unique wireless technologies

The Ajax system uses two-way secure radio communication based on Jeweller proprietary protocol. It supports block cipher encryption and device authentication on every session with the hub to prevent sabotage, spoofing, or data theft.

Ajax wireless technology has up to 1,100 meters of radio signal communication range in an open space, making it on average longer than competing solutions from different manufacturers. Automatic power adjustment makes it energy efficient by not using the maximum power of radio transmitters in system devices on a regular basis. It is also more stable, using less noisy radio frequencies. For protection against radio interference and signal interception, Ajax hubs use frequency hopping: the system automatically changes frequency within a band and notifies the security company and users about the jamming.

- Up to 1,100 meters of radio communication range with a hub
- Encrypted two-way radio communication
- Notifications about jamming and connection loss

Jeweller

The Ajax radio protocol uses polling to display current device statuses and transmits alarms, events, and all the readings into the Ajax apps. Jeweller features encryption and authentication to prevent spoofing.

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Product Specification Sheet

Scaled and comprehensive

Use the ReX range extender for complex radio signal conditions like large houses with thick walls or warehouses with several buildings. ReX boosts the range of all Ajax devices and manages their communication with the hub via Jeweller. And ReX 2 assures stable communication even through steel and concrete via Ethernet using the wire as the additional communication channel. Up to 5 range extenders can operate within one Ajax system to expand the network twice as big, covering underground parking, basements, and metal hangars.

- Up to 5 range extenders within one system
- Ethernet as an alternative communication channel

All data at a glance

- In-app control
- Data-rich notifications
- Remote configuration
- Detailed event log

Intuitive Ajax apps provide all information in real-time from anywhere the Internet is available, on a smartphone or PC. Users can check the device state and control the water supply remotely - any action can be done with one click.

Full monitoring for the building

With PRO Desktop , building admin staff can observe security, automation, and smart home devices. Device statuses, event log, and microclimate data - the operator has a complete picture in one intuitive interface, all informative and centralized. And photo verification of alarms from detectors of the MotionCam lineup will help to find out the situation at the protected facility and quickly respond to it. The installer can remotely change the settings and provide additional services according to the object specifics.

Advanced automation for greater safety

WaterStop is a part of the Ajax ecosystem. Using scenarios , it can interact with automation devices and PhOD detectors of the MotionCam lineup. Whether it's a minor water leak or a massive flooding, WaterStop shuts off the water in a matter of seconds. At the same time, MotionCam (PhOD) sends pictures to Ajax apps to identify what causes the water leak and assess the possible damage. And to prevent emergencies, automatic water supply control will turn off the water when no one is using it - a reliable combination of security and automation that runs like a Swiss watch.

Water leak prevention system

WaterStop automatically shuts off the water when LeaksProtect or any other third-party leak detector integrated into Ajax via Transmitter or MultiTransmitter detects a water leak.

Communication failure detection

The device regularly exchanges data with the hub. With maximum ping interval settings available (3 data packages once in 12 seconds), it takes only 36 seconds to identify communication loss and notify the security company and users about the incident.

Anti-sabotage mount lockers

Anti-sabotage mount locker prevents the electric actuator from dismantling unauthorized unless special tools are used. So WaterStop can be installed in offices, restaurants, libraries, and other public places without worries.

Tamper alarm

The enclosure is hardwired with a tamper button, which notifies the security company and users once the electric actuator is dismantled from the mount. Also, it helps to incur that the electric actuator is installed and fixed on the shutoff valve correctly.

Control button locking

The control button on the enclosure can be locked in Ajax apps to prevent accidental or unauthorized manual shut-offs.

Intuitive installation and connection

The WaterStop actuator is ready to operate straight out of the box. It installs on the mounting platform without tools and enclosure disassembling in four possible positions towards the valve. A plumber installs a bundled or another compatible shutoff valve in advance without an installation engineer's presence - all he needs to know is the electric actuator dimensions.

Ajax apps help quickly make the device a part of the automated system. There is no need to visit the object to disable the device or change the settings. The design allows maintenance and repair in hard-to-reach places: pipe tunnels, technical boxes, walls, etc. It is possible to replace the actuator unit without dismantling the shutoff valve.

Specifications:

Compatibility	
Hubs	Hub Plus
	Hub 2 (2G)
	Hub 2 (4G)
	Hub 2 Plus
	Hub Hybrid (2G)
	Hub Hybrid (4G)
Radio signal range extenders	ReX
	ReX 2
Communication	
Jeweller communication technology	Proprietary wireless technology for events transmission.
	Features:
	Two-way communication.
	Protection against device spoofing.
	Block encryption featuring a floating key.
	Instant notifications.
	Remote configuration via Ajax apps.
Radio frequency bands	866.0 - 866.5 MHz
	868.0 - 868.6 MHz
	868.7 - 869.2 MHz
	905.0 - 926.5 MHz
	915.85 - 926.5 MHz
	921.0 - 922.0 MHz
	Depends on the region of sale.
Maximum effective radiated power (ERP)	up to 20 mW
	Automatic power adjustment to reduce power consumption and the effect of radio interference.
Radio signal modulation	GFSK
Radio communication range	up to 1,100 m
	Between device and hub (or radio signal range extender) without obstacles.
	Calculate the radio signal range at the object

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Radio signal encryption	Block encryption with a floating key protects all the data stored and transmitted.
Frequency hopping	Prevents radio interference and jamming.
Operating components	
Shutoff valve	½" (DN 15), ¾" (DN 20), or 1" (DN 25) RuB valve included in complete set.
Electric actuator	Opens or closes the valve.
Mounting platform	To install an electric actuator on a shutoff valve.
Mounting lockers	To fix an electric actuator on a shutoff valve.
	The complete set includes two options:
	standard (pre-installed)
	anti-sabotage
Water shut-off	
shutoff valve	shutoff valve
Fields of application	water supply and heating systems
Operating fluid	hot and cold water, non-aggressive liquids
Material	brass
Connection type and thread	BSP parallel (EN 10226-1, ISO 228), female-to-female threads
	Thread size:
	½" (DN 15, 15 mm)
	¾" (DN 20, 20 mm)
	1" (DN 25, 25 mm)
Operating liquid temperature range	from -20 degreesC to +170 degreesC
	Freezing of the fluid in the pipeline may severely damage the valve and electric actuator.
Mounting platform	to mount an electric actuator on a shutoff valve
	Complies with the ISO 5211 standard.
Lever on mounting platform	To manually shut off the water supply without tools in case of emergencies.
Water shut-off	
electric actuator	electric actuator
Torque	up to 8.5 N m
Operating pressure	up to 10 bars
Shut-off speed	up to 5 seconds
	The value may increase if the valve is clogged or stuck.
Remote control	control and configuration in Ajax apps
	Apps provide all information about the device: current valve state (open/closed), statuses of battery charge, external power supply, and communication with a hub.
Manual control	the control button on the electric actuator enclosure
	Opens/closes the valve when pressed.
Additional features	

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Installation	does not require tools and enclosure disassembling
	4 possible mounting positions of electric actuator towards the valve
	anti-sabotage locker to complicate unauthorized dismount of an electric actuator
	The design allows maintenance, and repair in hard-to-reach places: pipe tunnels, technical boxes, walls, etc. It is possible to replace the actuator unit without dismantling the shutoff valve.
LED indication	The LED placed under an Ajax logo on enclosure and reports the electric actuator states.
Automation scenarios	alarm reactions
	security mode change reactions
	scheduled actions
	temperature scenarios
	humidity scenarios
	CO2 level scenarios
	by pressing Button
	by pressing LightSwitch
Stuck prevention	the scheduled scenario automatically opens/closes a shutoff valve
	Configured in Ajax apps. The recommended periodicity is once a week.
Overheating notification	The notification is sent to Ajax apps when the device temperature tops +60 degreesC and when it returns to normal.
	Recommendations
	The device is designed for indoor use only. Contact a plumber to install the shutoff valve.
Anti-sabotage protection	
Protection against spoofing	device authentication
Communication failure detection	in 36 s
	The time depends on the Jeweller (or Jeweller/Fibra) settings.
Tampering alarm	Notifies about attempts to detach the enclosure from the mount.
Mounting lockers for fastening	The complete set includes two options:
	Standard locker (pre-installed) - fixes an electric actuator on a shutoff valve. Removes easily for a quick access to the valve.
	Anti-sabotage locker - used instead of a standard locker. Securely fixes an electric actuator on the valve to complicate an unauthorized dismount.
Power supply	
Pre-installed batteries	4 x CR123A battery
	Up to 3 years of battery life.
Optional external power supply	7.5-14 V---, from 1.8 A
	The recommended voltage of the power supply is 9 or 12 V---. The batteries serve as a backup when external power supply is connected. Use a round 2 x AWG22 cable with an external diameter of 3.0-3.7 mm to connect an external power supply.
Enclosure	

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Dimensions	104 x 140 x 70 mm
	½" (DN 15) shutoff valve with an electric actuator.
	104 x 150 x 70 mm
	¾" (DN 20) shutoff valve with an electric actuator.
	104.5 x 159 x 70 mm
	1" (DN 25) shutoff valve with an electric actuator.
	93 x 70 x 95 mm
	Electric actuator.
	75 x 27 mm
	½" (DN 15) shutoff valve.
	80 x 32 mm
	¾" (DN 20) shutoff valve.
	90 x 41 mm
	1" (DN 25) shutoff valve.
Weight	869 g
	½" (DN 15) shutoff valve with an electric actuator.
	1012 g
	¾" (DN 20) shutoff valve with an electric actuator.
	1336 g
	1" (DN 25) shutoff valve with an electric actuator.
	536 g
	Electric actuator.
	333 g
	½" (DN 15) shutoff valve.
	476 g
	¾" (DN 20) shutoff valve.
	800 g
	1" (DN 25) shutoff valve.
Operating temperature range	from 0 degreesC to +60 degreesC
Operating humidity	up to 95%
Colours	
Colours	Black
	White
Complete set	

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Complete set	WaterStop Jeweller
	4 CR123A batteries
	Pre-installed.
	DN15 (½"), DN20 (¾"), or DN25 (1") RuB valve
	Depends on the selected kit
	2 lockers for securing the electric actuator
	Sealing nut
	Quick start guide

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/AJAX-WS-15-W-Ajax-White-Wireless-WaterStop-with-15-Buy-p-294619.php>

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