E-WATERBLOCK Long Range installation guide

After verifying the presence of a LoRa connection and, if necessary, having connected the gateway devices to the wi-fi, proceed with the installation of the E-WATERBLOCK Long Range.

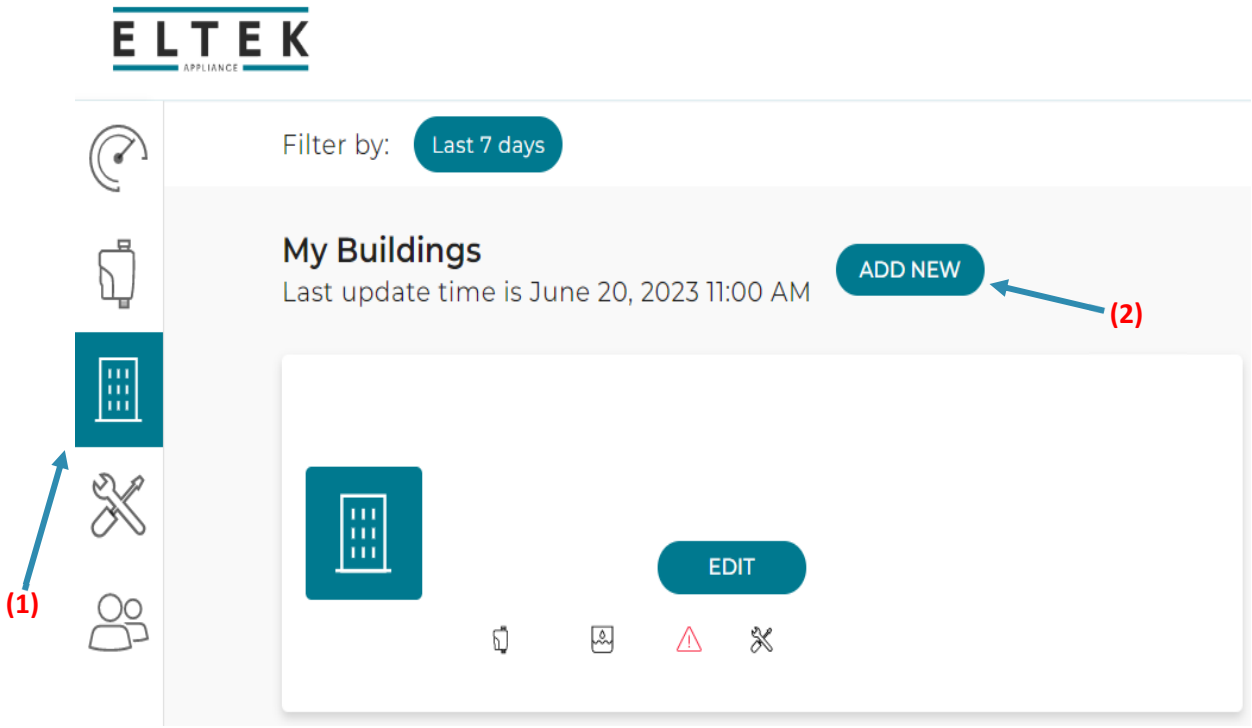
1. Portal login

Ask for admin credentials provided by Eltek once the registration form on the portal has been completed.
Go to https://www.eltekwebportal.com/ and login.
The login with admin credentials allows **the installation of the device** on the portal (web app).

2 Add and install a new E-WATERBLOCK on the portal

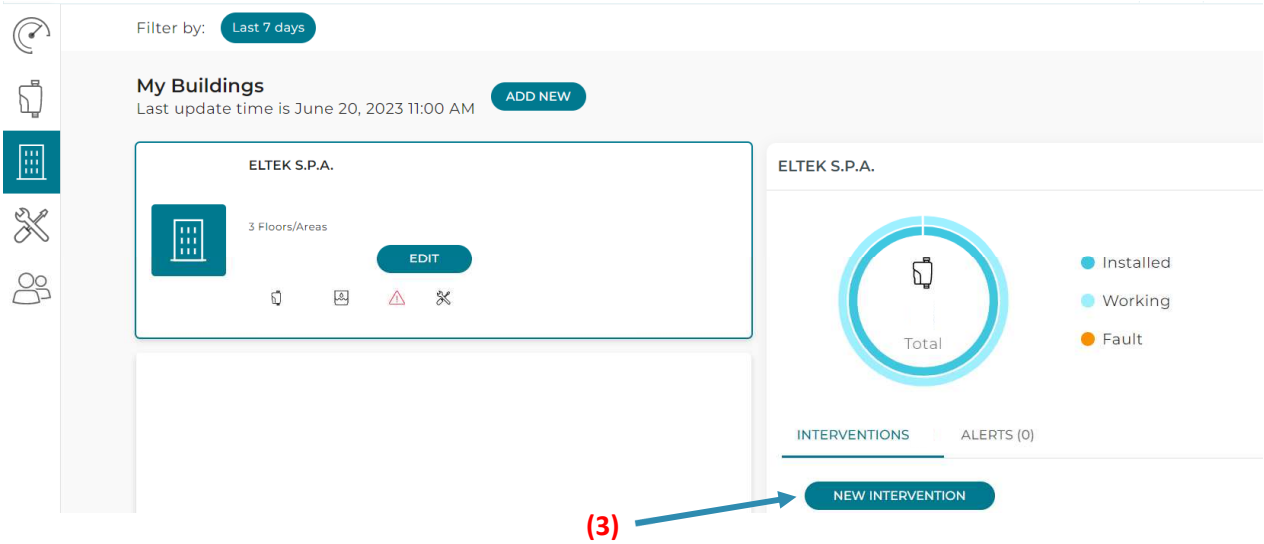
2.1 Creation of a new building

Create a new building clicking **on the specific icon** (1) , then click on ADD NEW (2). Follow the portal instructions and save.



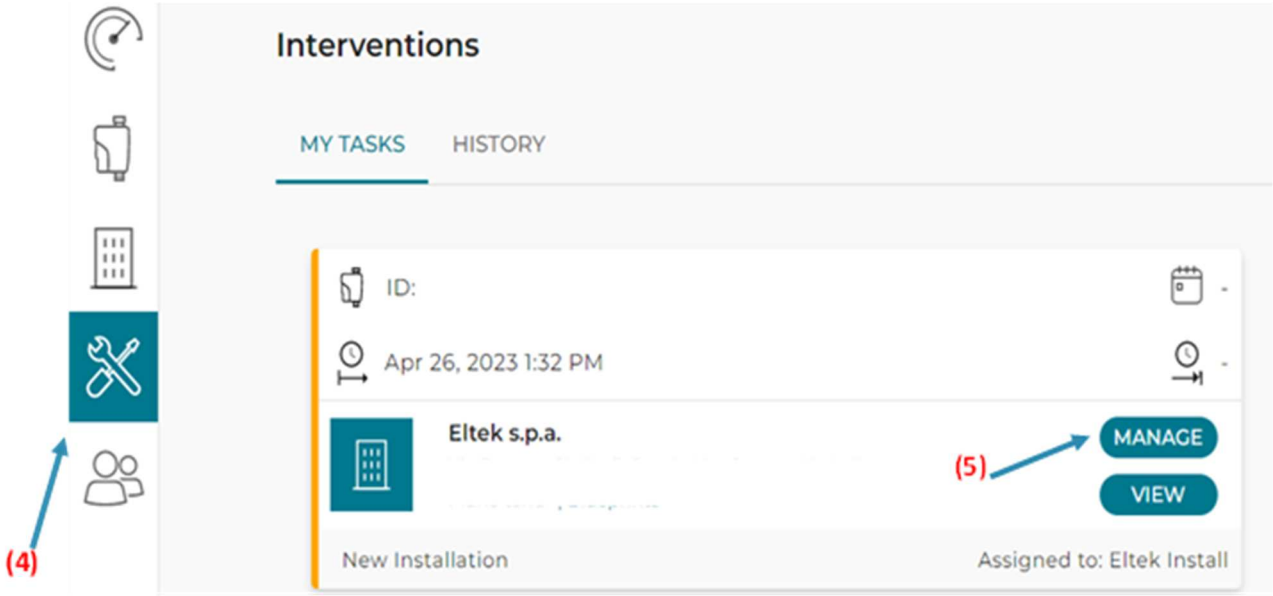
2.2 Assignment of installation intervention.

To assign the installation of E-WATERBLOCK Long Range or another task to the intervention team, select the building interested and click on "new intervention" (3), select the team member and briefly describe the operation to be implemented (installation of a new piece or intervention in case of anomaly).



2.3 Install a new E-WATERBLOCK on the portal

The installer has to login to the portal with its specific profile (the admin defines installer profile) and click on the intervention icon (4).



Select the one you want to take care of from the list of interventions and click on "manage" (5).

Fill the "new device installation" fields by entering the device code and the passkey included in the box. Set the flow limits of the E-WATERBLOCK to be installed (in case of customized profile) and click on "install device".

3. Installation of E-WATERBLOCK.

Turn off the water; screw the metal ring nut to the end of the inlet pipe and the lower part to the outlet pipe of the household appliance or toilet.
Turn the orange lever clockwise and release it, it will go back into the position by itself. Open the tap and check that the hydraulic connections are properly sealed.
Make the water circulate in the duct to **allow the switching**.
After few minutes the LED located in the upper part of the device will start flashing twice consecutively every four seconds: the device is on and attempting to connect.
Once the connection is complete, the LED starts flashing once every 4s.
At the end of the physical installation of the device, close the intervention on the portal by clicking on the “close intervention” button.
Attention: the device must always be full of water otherwise if it is empty it will switch off after about 10 minutes and you will have to switch it on again for its correct use.

4. Device use

The device periodically sends data about application consumption to the cloud and notifications about intercepted and blocked anomalies.

Consumptions are collected on graphic charts or on lists.

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Start Date ↓	End Date	Volume	Flow MIN	Flow MAX	MAX Volume ↓	Profile	Alert
Jun 20, 2023 9:11:32 AM	Jun 20, 2023 9:16:34 AM	13,64	0,50	20,00	20,00	Custom	
Jun 20, 2023 9:01:32 AM	Jun 20, 2023 9:06:40 AM	13,62	0,50	20,00	20,00	Custom	
Jun 20, 2023 8:51:33 AM	Jun 20, 2023 8:56:35 AM	13,56	0,50	20,00	20,00	Custom	
Jun 20, 2023 8:41:41 AM	Jun 20, 2023 8:46:36 AM	13,28	0,50	20,00	20,00	Custom	
Jun 20, 2023 8:41:34 AM	Jun 20, 2023 8:41:38 AM	0,19	0,50	20,00	20,00	Custom	

In case of anomaly, the device will automatically **shut off interrupting the flow of the water.**

After identifying the cause of the problem and proceeding to resolve it, turn the orange lever clockwise to reactivate the device.
The anomalies that can be detected are:
• Continuous flow below the minimum flow set for at least 1'
• Continuous flow above the maximum flow set for at least 3''
• Volume related to a continuous flow higher than the maximum value set

In case of flow anomaly turn the orange lever clockwise 90° and release it to reset the device.

5. E-WATERBLOCK Long Range technical features

Minimum flow rate	0.2 l/min - 0.053 gpm*
Maximum flow rate	From 0.2 l/min to 30l/min - From 0.053 gpm to 7.926 gpm*
Approved for use with hot water	Yes
Relative humidity	30%-95%
Water conductivity	From 100 micro S/cm to 5,000 micro S/cm
Operating pressure	0.02MPa/1MPa - 0.2/10bar
Connectivity	LoRaWAN®
Battery life	>3 years

5.1 Certifications

EU version code 1011985x E-WATERBLOCK Long Range is approved: WRAS e ACS; and it is compliant with: UBA, KTW, DM174
USA version code 1012985x E-WATERBLOCK is certified: NSF 169, UL, FCC
no anti-water-hammer device as per IEC 60730-2-8§18.101.3

5.2 Markings/declarations

EU Version: CE (inserire simboli)
USA Version: FCC IC UL (inserire simboli)

FCC regulatory statements (in accordance withFCC regulatory statements):

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

NOTE:

a) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
   —Reorient or relocate the receiving antenna.
   —Increase the separation between the equipment and receiver.
   —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
   —Consult the dealer or an experienced radio/TV technician for help.

b) The equipment complies with the safety requirements for RF exposure for mobile (>20 cm) use conditions in accordance with FCC rule part 2.1091.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device
3. The equipment complies with the safety requirements for RF exposure in accordance with RSS-102 Issue 5 section 2.5.2 for mobile (>20 cm) use conditions.

5.3 Documentation

Drawings of final product: ver EU cod 10.1198.5x – ver USA cod 10.1298.5x

Technical datasheet: cod 82.1x985x
User guide: cod. 43.0013.01
You can download documentation on the website www.waterblocksolutions.com

5.4 Warranty discalimer

A 100% protection against water damage cannot be guaranteed. Eltek is not responsible for damages or defects due to incorrect set-up of the Product or improper installation.

5.5 Garbage collection

Information on the correct management of waste from household Equipment pursuant to the European Directive 2012/19/EU. The crossed-out wheelie bin symbol shown on the equipment or its packaging indicates that the product, at the end of its useful life, must be collected separately from other waste to allow its proper treatment and recycling. The user must therefore deliver, free of charge, the end-of-life equipment to the centers for the separate collection of waste of electrical and electronic equipment, or return it to the dealer in accordance with the procedures established by the legislation. The equipment contains a battery that is not easily removable which does not have to be removed by the user for delivery, but it has to be let inside the product. The appropriate separate collection of discarded equipment allows a proper recycling, treatment and environmentally compatible disposal, helping to avoid the possible dispersion of hazardous substances and negative effects on the environment and health. Illegal dumping of the product by the user involves the application of administrative sanctions provided by the legislation in force.

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Visit the website www.waterblocksolutions.com to have more information on the E-WATERBLOCK, or send an e-mail to info@waterblocksolutions.com

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