

Installation, Operation & Maintenance Instructions



ADI-X - Smartphone Operated Controller for Filtration Systems

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Safety Instructions

General

The manufacturer's filtration products always operate as components in a larger system. System designers, installers and operators must comply with all relevant safety standards.

Prior to installation, operation, maintenance and/or any other type of action carried out on the controller, carefully read these installation and operation instructions.

During installation, operation and/or maintenance of the controller all conventional safety instructions must be observed in order to avoid danger to the workers, the public and/or to property in the vicinity.

The system is for use for non-hazardous liquids only!

Please note: The filter controlled by the controller enters the flushing mode automatically without any prior warning.

No change or modification to the equipment is permitted without written notification given by the manufacturer or by its representative(s) on the manufacturer's behalf.

Always observe standard safety instructions and good engineering practices whilst working in the filter's vicinity.

Use the controller only for its intended use as designed by the manufacturer only. Any misuse of the controller may lead to damage and may affect your warranty coverage. Consult with the manufacturer prior to any non-standard use of this equipment.

Do not carry out system cleaning and/or maintenance in an explosive atmosphere.

Installation

General

Install the controller according to the detailed installation instructions provided in this manual or in the Quick Guide provided with the filter or controller.

Make sure to leave enough side and top clearance to enable easy access for safe maintenance operations.

Make sure to have suitable lighting at the filter's location to enable good visibility and safe maintenance.

Arrange suitable platforms and safety barriers to enable easy and safe access to the controller without needing to climb on pipes and other equipment. Verify that any platform, barrier, ladder, or other such equipment is built, installed, and used in accordance with the relevant local authorized standards.

Use only appropriate standard tools and equipment operated by qualified operators when installing, operating, and maintaining the controller.

When installation is required in hazardous environment sites, underground or high above ground, make sure that the site design and the auxiliary equipment are appropriate and that installation procedures are carried out in accordance with the relevant standards and regulations.

Make sure walking areas around the installation are slip resistant when wet.

Shipment and transporting

Shipping and transporting the controller must be done in a safe and stable manner and in accordance with the relevant standards and regulations.

Electricity

Electric wiring must be performed by an authorized electrician only, using standardized and approved components.

The filter should be installed in a manner in which the controller's electrical components are protected from direct contact with water.

When using external power, a 2A external fuse and minimum 22AWG wires are required.

Commissioning

Carefully read this manual prior to operating the controller.

In order to achieve maximum performance and smooth operation of the controller, performing the start-up and first operation procedures exactly as described in this manual is crucial.

Operation and Control

Do not operate the controller before carefully reading and becoming familiar with its operation instructions.

Observe the safety stickers on the controller and do not perform any operation other than those given in this manual.

Do not operate or use the controller for purposes other than its original design.

The system is for use for non-hazardous liquids only!

Do not carry out system cleaning and/or maintenance in an explosive atmosphere.

Before Any Maintenance or Non-standard Operation

Servicing the controller should be done only by technicians authorized by the manufacturer.

Do not carry out system cleaning and/or maintenance in an explosive atmosphere.

Disconnect the controller and the filter from the power supply and lock the main power switch.

Preventing Damage Due to Frost

Non-operating periods:

To avoid damage or breakage when temperatures drop, command tubes must be disconnected and drained prior to non-operating periods.

Operating season:

Your ADI-X controller is equipped with a built-in feature that detects low temperatures and increases the number of flushes to avoid freezing of water. You can activate and adjust the settings of this feature in your Settings menu.

Introduction

About the ADI-X Controller

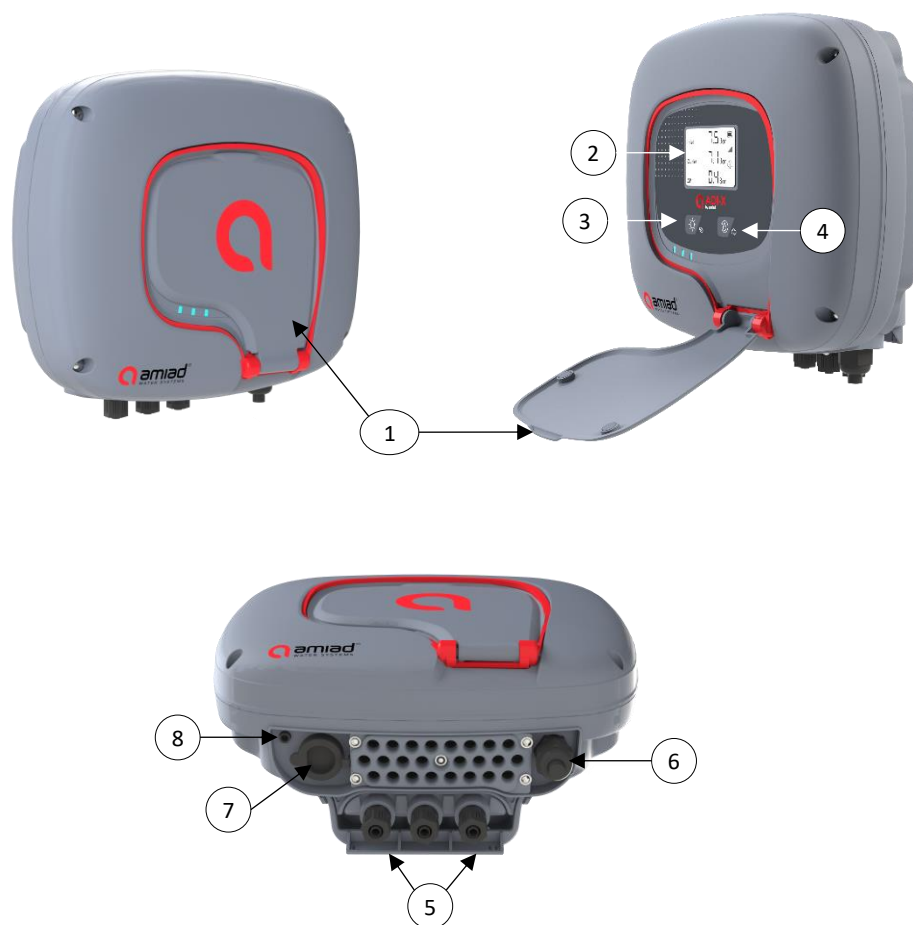
ADI-X by Amiad, is our most advanced smart controller for a wide range of filtration solutions. By using the ADI-X, you will be able to receive real time data regarding your filter performance, relevant alerts, technical and marketing updates.

ADI-X allows you to modify various parameters for your filtration system remotely.

Supporting both Cloud and Bluetooth® wireless technology, ADI-X allows you to connect to your filter from any mobile device or desktop, regardless of your location (while on the Cloud).

The ADI-X Controller Components

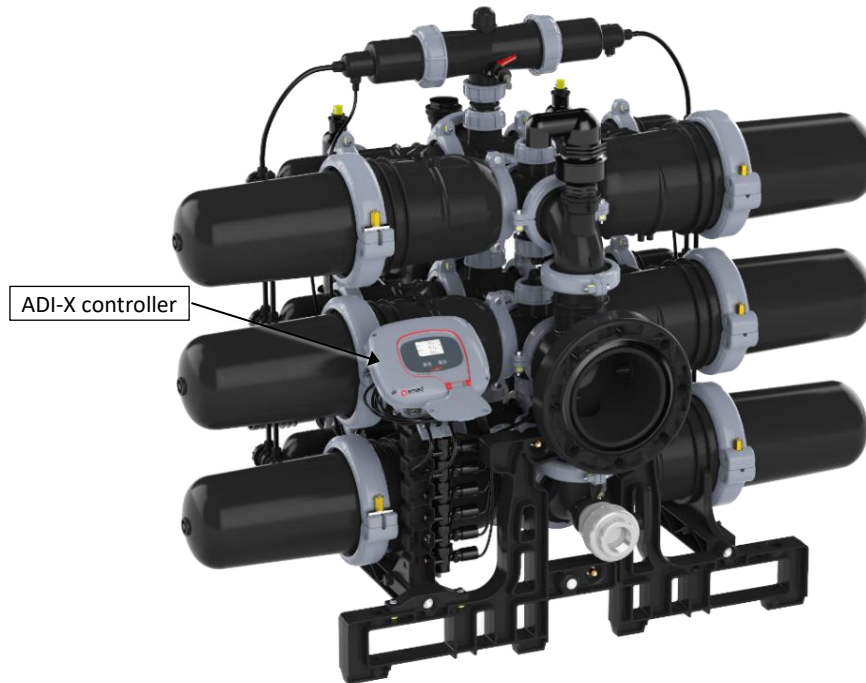
Take a few moments to familiarize yourself with the ADI-X Controller components:



1. Protection cover
2. LCD display
3. Left control button
4. Right control button
5. Water connection for internal DP sensors (inlet/piston/outlet)
6. Power cable gland
7. RJ-45 connection (optional)
8. External antenna SMA connection

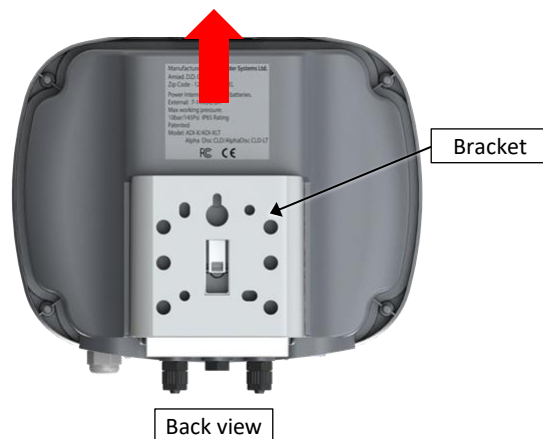
ADI-X Controller Installation

The ADI-X controller can be supplied as part of a filtration system or as a standalone device. The controller is installed on a bracket and can be easily removed by pushing it up. If the controller is supplied as a part of a filtration system, the controller is already installed and connected.



To disassemble the installed controller:

1. Disconnect all cables and pipes (see ADI-X Terminal Blocks Connections and ADI-X DP Sensor Connections).
2. Push the controller up to remove it from the bracket.

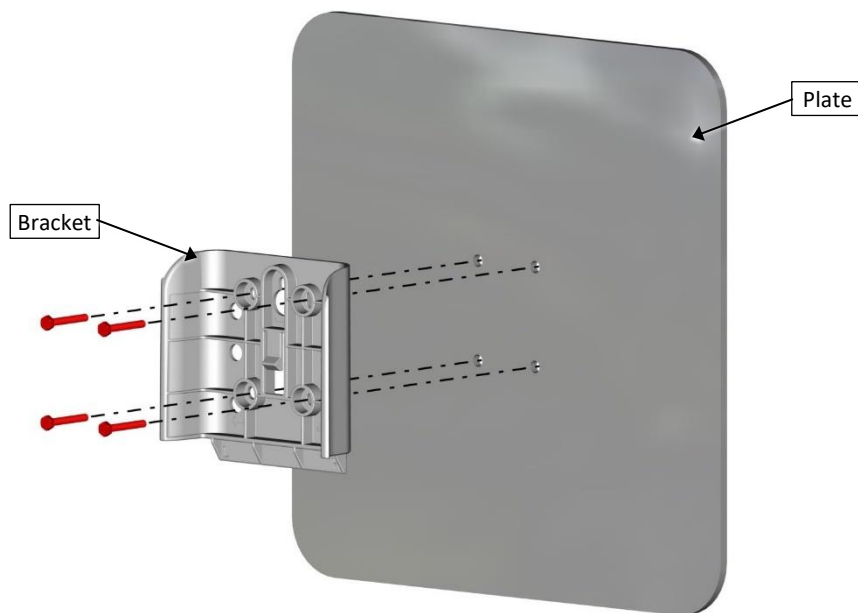


Installation on a Pole

If the ADI-X controller is supplied separately, it can be installed on a pole using a plate and clamps (not included).

Instructions:

1. Mount the 100x120 mm plate on the pole using clamps (minimum dimensions).
2. Remove the controller from the bracket.
3. Tighten the bracket to the plate using 4 screws.



4. Attach the controller to the bracket. Press the controller until you hear "click".

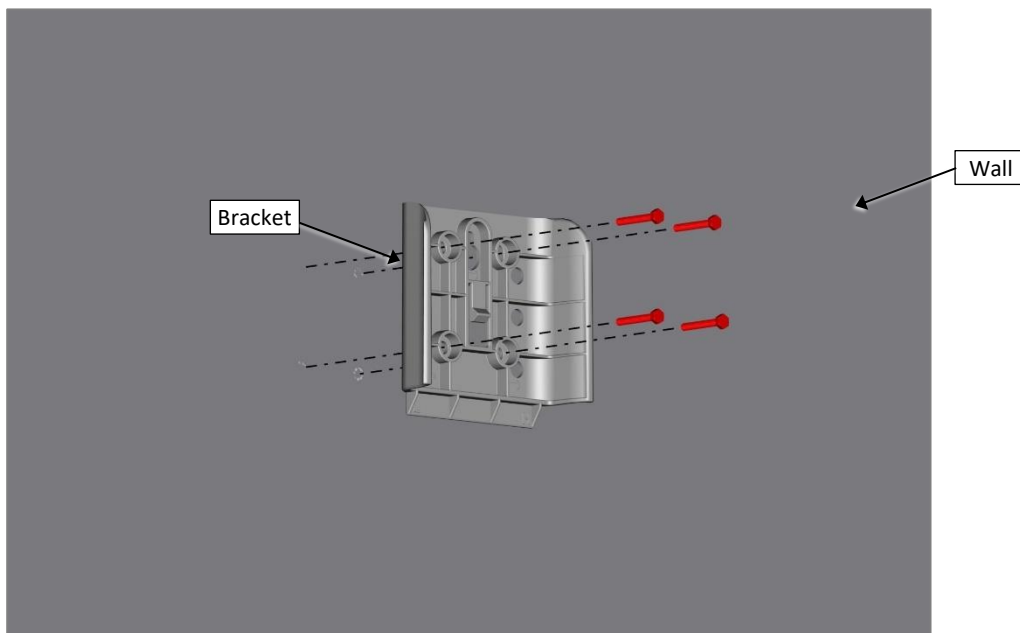
Notice: handle with care

Installation on a Wall

If the ADI-X controller is supplied separately it can be mounted on a wall using fasteners (not included).

Instructions:

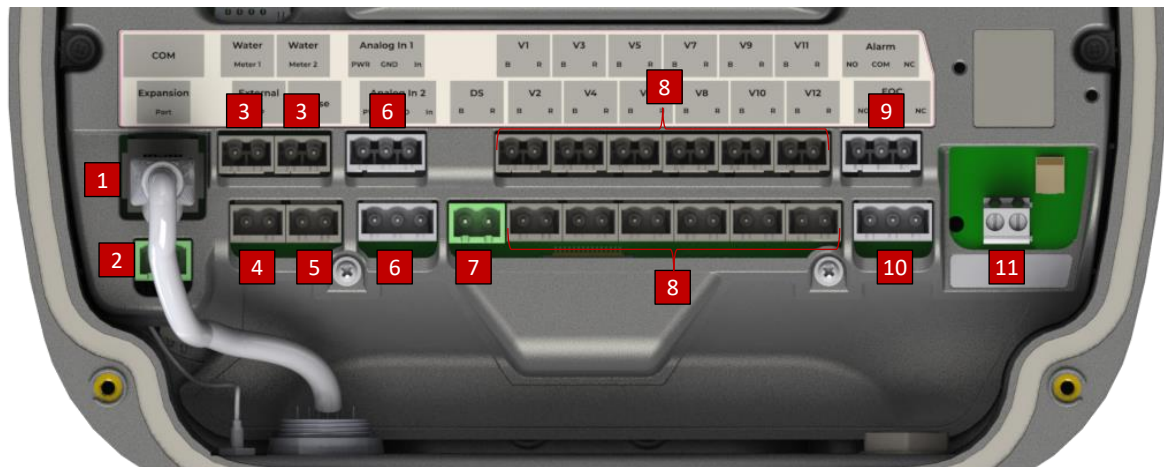
1. Determine mounting height for easy viewing and access.
2. Remove the controller from its bracket.
3. Attach the bracket to the wall. Level the bracket by using a water level.
4. Mark the location of the bracket holes on the wall (see fig. below).
5. Using a drill, install 4 wall anchors in the marked locations. Attach the bracket to the wall. Tighten the mounting screws into the anchors.



5. Attach the controller to the bracket. Press the controller until you hear "click".

ADI-X Terminal Blocks Connections

Once the controller has been installed, connect the controller's terminals according to the following:



1. **RJ-45 COM:** Used to connect PLC or other control device.
2. **Extension A and B:** Used for connection between primary and secondary controllers.
3. **Digital inputs:** Used to connect external water meters.
4. **External DP:** Used to connect external differential pressure switch.
5. **Pause:** Used to connect external device to trigger pause.
6. **Analog inputs:** Used to connect analog signals 4-20 mA, 0-10 V (power to input is controlled) from sensors of following types: pressure, temperature, conductivity, turbidity, humidity.
7. **DS valve:** Output for downstream valve through solenoid latch.
8. **V1-V12 outputs:** For filter flush through solenoid latch.
9. **Alarm output:** Used to switch external device via NO/NC relay.
10. **cycle relay output :** Used to send signal via NO/NC relay.
11. **External power supply connection.** Power supply for the controller must supply 7-14 VDC, 2A.

In order to connect the cables to the controller's terminals, remove the top cover by loosening the four screws.



Remove the two screws that secure the electrical safety protection cover. This will allow access to connect the external power supply.



c

Notice: the connection cables enter the controller case via silicon insulated holes. Once the silicon insulation is broken by the cable it will no longer provide sufficient insulation without cable. Do not remove cables from entrance holes without replacing them with the new ones!

Notice: every external device connected to the controller should be correctly set up in controller settings.

For example: number of filtration units must be specified correctly; type of analog device connected to the controller must be specified in corresponding field.

ADI-X DP Sensor Connections

The ADI-X controller can work with an internal or external DP sensor, depending on configuration. The controller's default configuration is the internal DP sensor. Water pipes should be connected to the DP inlet and outlet.



Batteries Installation/Replacement

The ADI-X controller is supplied with 4 x 1.5V Type D batteries supplied loose.

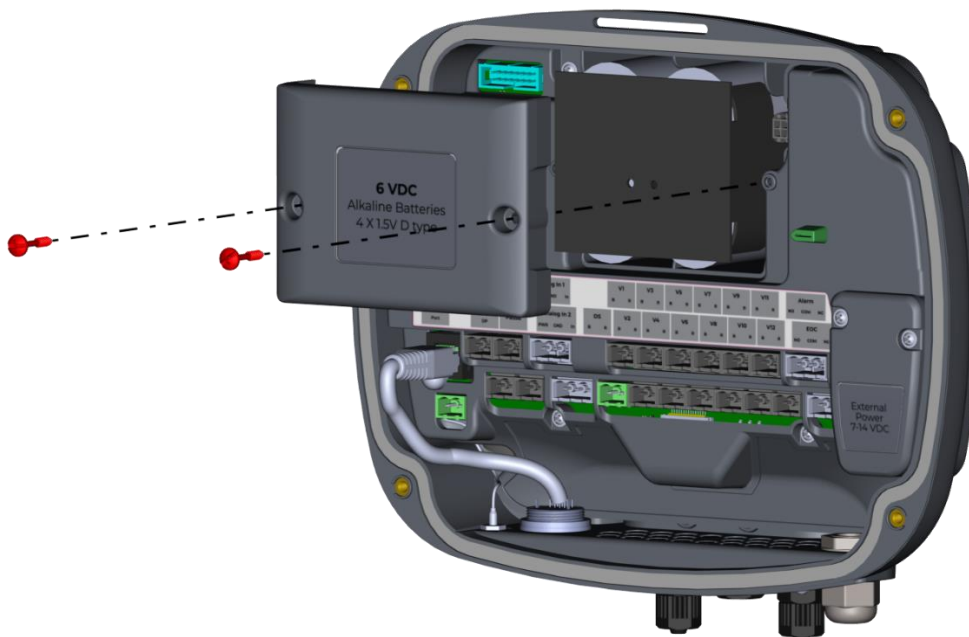
The estimated batteries' lifetime is one year or about 80K flushes (whichever comes first).

To install/replace the batteries:

1. Remove the top cover by loosening the four screws.



2. Remove the two screws that secure the battery cover. This will allow access to the battery assembly.




3. Remove the battery assembly from the device and replace 4 x 1.5V Type D batteries.



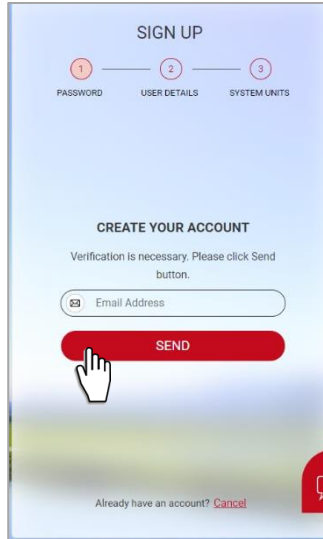
4. Reinstall the battery assembly.
5. Close battery cover and tighten the screws.
6. Reassemble the top cover and tighten the screws.

Registering

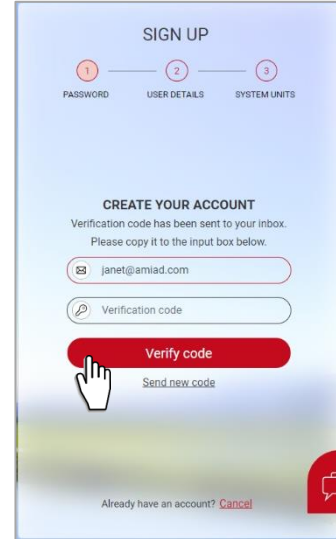
Go to <https://adix.amiad.com/> website:



Click 'SIGN UP'

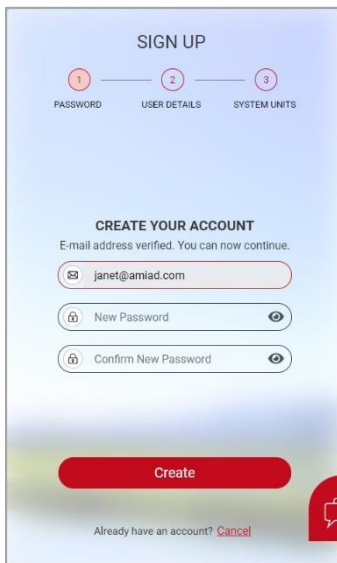


Enter your email address and click 'SEND'

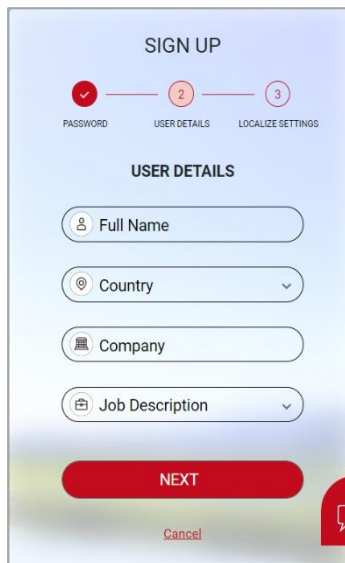


A verification code will be sent to your email.

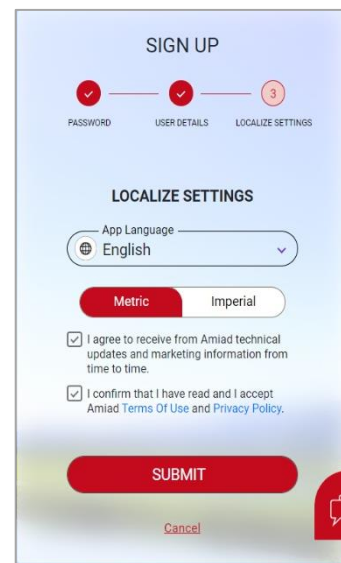
Log into your email account and copy your verification code. Paste the verification code and click "Verify code".



Create your new password in the "New Password" field and reenter the new password in the "Confirm New Password" field. Click "Create".



Enter your Full Name, Country, Company and Job Description. Click "Next".

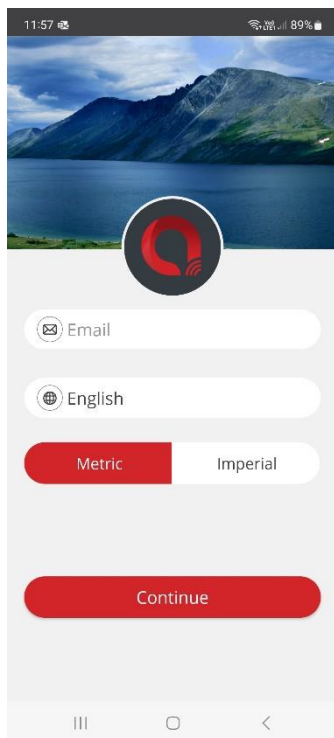


Select your application language and units (METRIC or IMPERIAL). Click "SUBMIT".

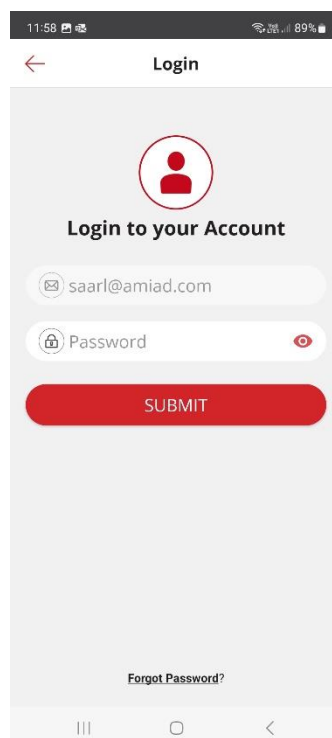
Your ADI-X user account has been created!

Logging In - ADI-X Mobile Application

Download and install the **ADI-X Mobile application** on your mobile device. Log in using Email and password created earlier.



Enter your Email (used for signing up in ADI-X Desktop application). Click "CONTINUE".

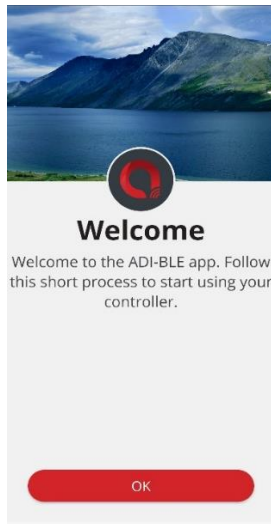


Enter your password (created during sign up in ADI-X Desktop application). Click "SUBMIT".

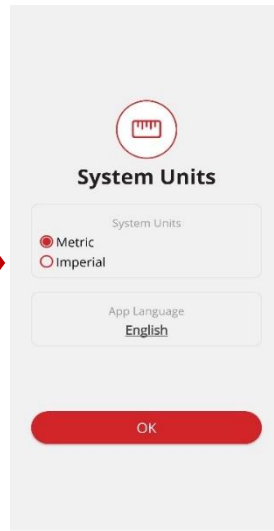
Registering - ADI-BLE Mobile Application

Download and install the **ADI-BLE** Mobile application on your mobile device. To register your account in the **ADI-BLE** application:

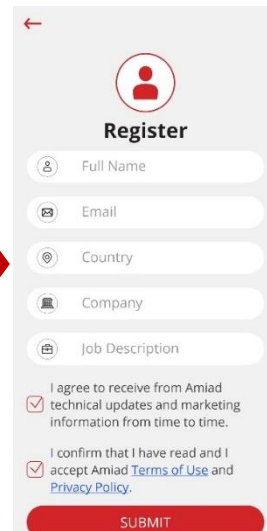
Activate your mobile device's Bluetooth® discovery mode and start the ADI-BLE application.



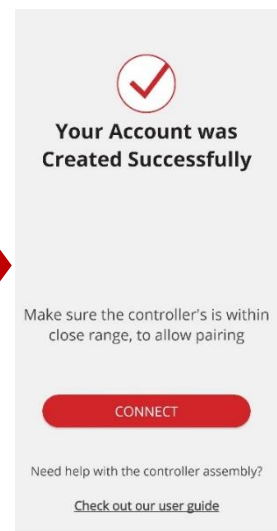
Click "OK" to start setting up your account.



Select your application language and units (METRIC or IMPERIAL). Click "SUBMIT".



Enter your Full Name, Email, Country, Company, and Job Description. Click "SUBMIT".



Your account was successfully created and is ready use.

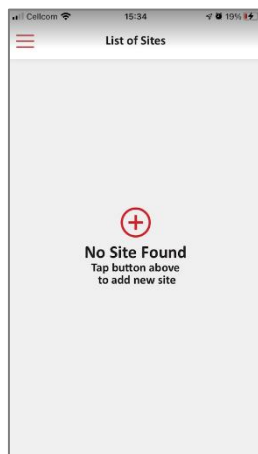
Adding ADI-X Controller to a User Account

To add your ADI-X controller to your account, you need to set the ADI-X controller in communication mode and get the specific PIN code displayed, by following these instructions:

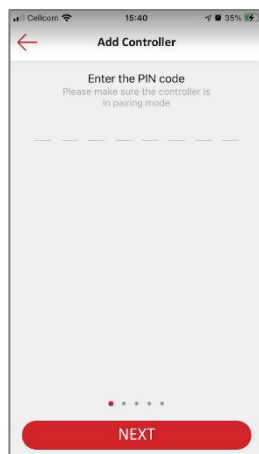
1. Open the **ADI-X** controller display protection cover.
2. If needed, Press the Left Button to enable LED backlight.
3. Press and hold the Left Button on the **ADI-X** controller until the 8-digit PIN code appears on the screen.



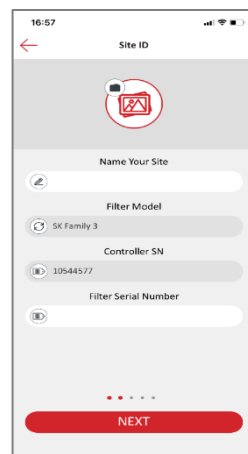
Adding ADI-X Controller to your user account



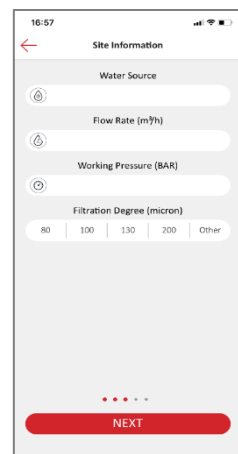
Open the **ADI-X Mobile/desktop Application**. Sign in with your email and password. Click the "+" in the "List of Sites" window.



Enter the 8-digit PIN code obtained from the controller. Click "NEXT"



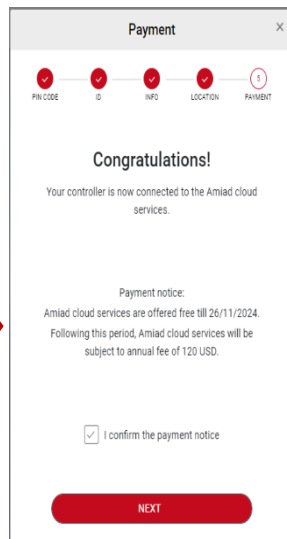
In "Site ID" screen enter your site details and select filter model from the list, enter filter. Click "NEXT".



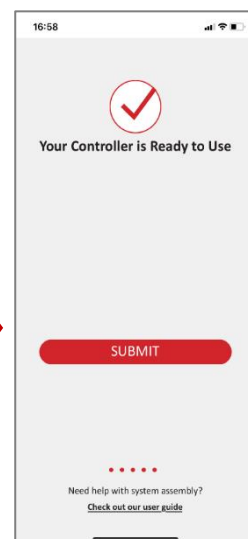
In "Site Information" screen select water source from the list and enter site information. Click "NEXT".



In "Site Location" screen set the location of the site on the map. Click "NEXT".



In "Payment" window confirm the payment notice. At this stage, your controller is connected to your account and ready for use! Click "Next".

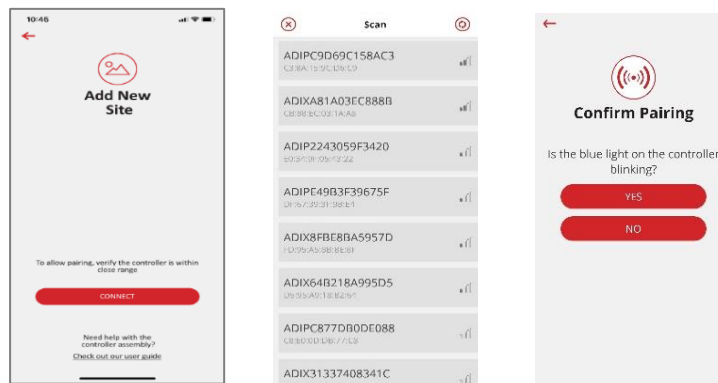


At this stage your controller was connected to your user account and ready for use! Click "SUBMIT".

Pairing ADI-X Controller using the ADI-BLE Mobile Application

Notice: Pairing the ADI-X controller with the Bluetooth® application will utilize part of the full list of features available in the cloud applications. Amiad recommends pairing the ADI-X controller with the dedicated ADI-X applications (Mobile and Desktop).

1. Activate your phone's Bluetooth® discovery mode and start the ADI-BLE application.
2. Click CONNECT. The application scans for controllers within Bluetooth® range.
3. Select your controller from the list of controllers in range. Verify that the blue LED on your controller is blinking before clicking YES to initiate the pairing process.
4. Confirm the pairing process.

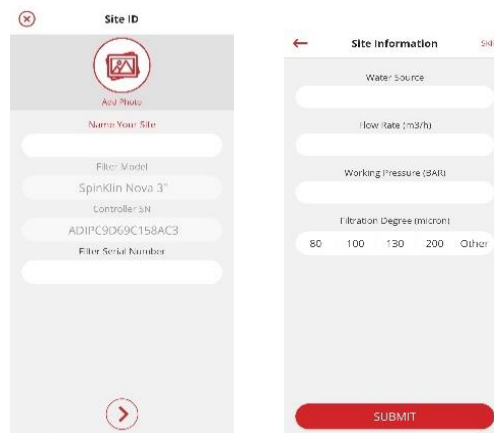


5. Complete the SITE ID form.
 - a. Controller supplied with filter:** Name your site. The application reads the filter model and controller's serial number automatically.
 - b. Controller purchased separately:** Name your site, select the filter model and enter your controller's serial number.

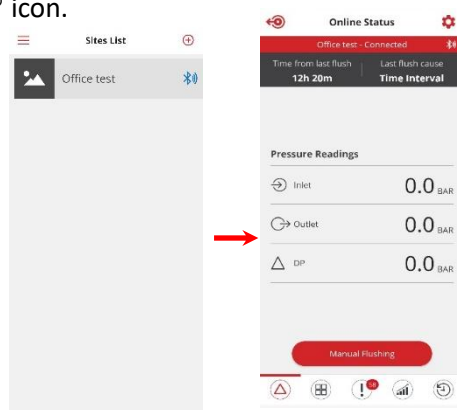
You may add a site photo by clicking on



6. Enter the SITE INFO details (optional).
7. Once done, click SUBMIT to add your new filter to the SITE LIST.



8. In order to view data from your controller, select the active controller from the SITE LIST, marked by the active Bluetooth® icon.

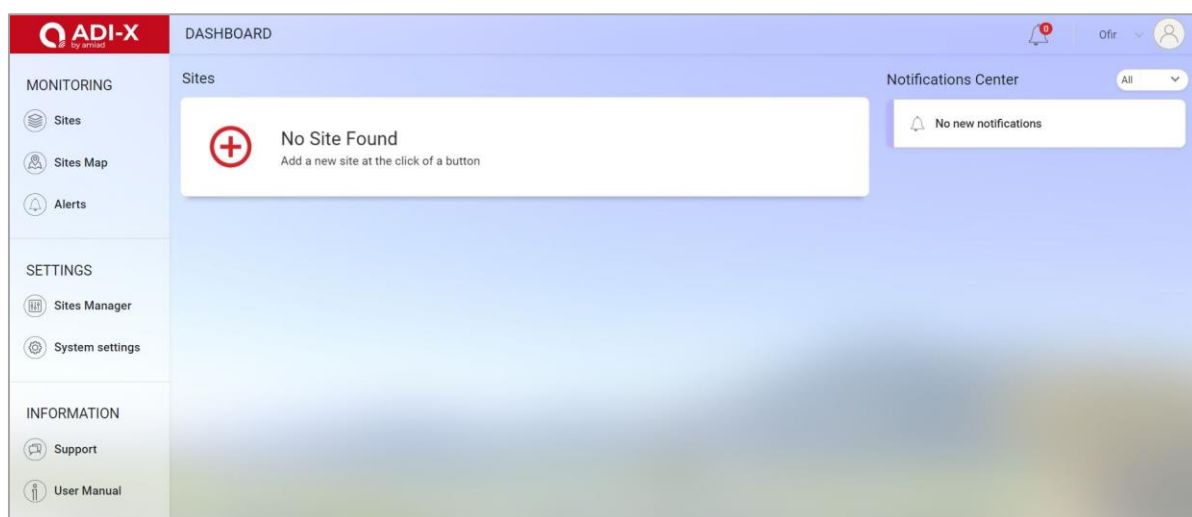


9. The ONLINE STATUS screen appears and relevant data regarding your filter's performance can be viewed.

Getting to Know the ADI-X Desktop Application

Take a few moments to familiarize yourself with the ADI-X Desktop Application interface:

Left Menu Details



| Element | Description |
|------------------------|---|
| Sites | The Sites page contains a list of all owned and linked Sites as well as Sites overview and settings. |
| Sites Map | The Sites Map page contains a map where all owned and linked Sites are marked. |
| Alerts | The Alerts page contains active alerts from all connected controllers and a list of alert messages according to their occurrence time and date. |
| Sites Manager | The Sites Manager page contains a list of all owned and linked Sites and allows adding and deleting sites from the account. |
| System settings | The System settings page contains Account parameters, localization parameters and allows changing the user password. |
| Support | The Support contains a message pop-up window. |
| User Manual | The User Manual contains a link to the digital version of the User Manual. |

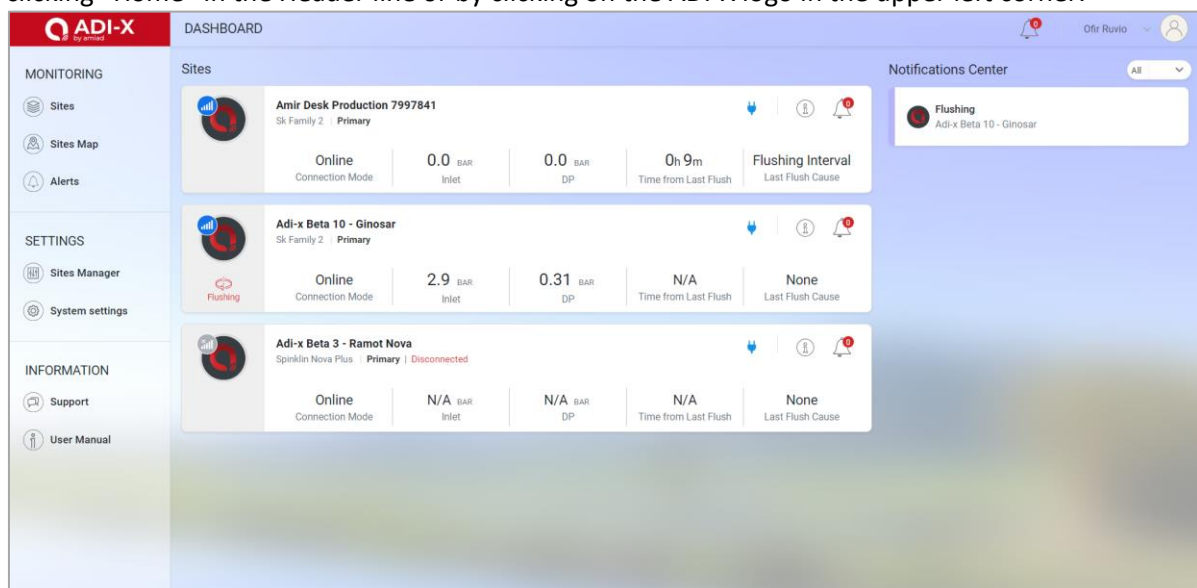
Header Line Details

| Element | Description |
|----------------|--|
| Page name | Displays the current page name with the navigation path. Example: Home/System settings/My account. |
| Alerts icon | Shows the number of active alerts. |
| Username | Shows the Username. |
| Drop down menu | Username drop-down menu, contains two options: My account – opens System settings page. Sign out – allows the user to sign out of the account. |

Page Details

Home/Dashboard Page

The Home page contains the Sites List and Notification center. You can return to Home page by clicking “Home” in the Header line or by clicking on the ADI-X logo in the upper left corner.



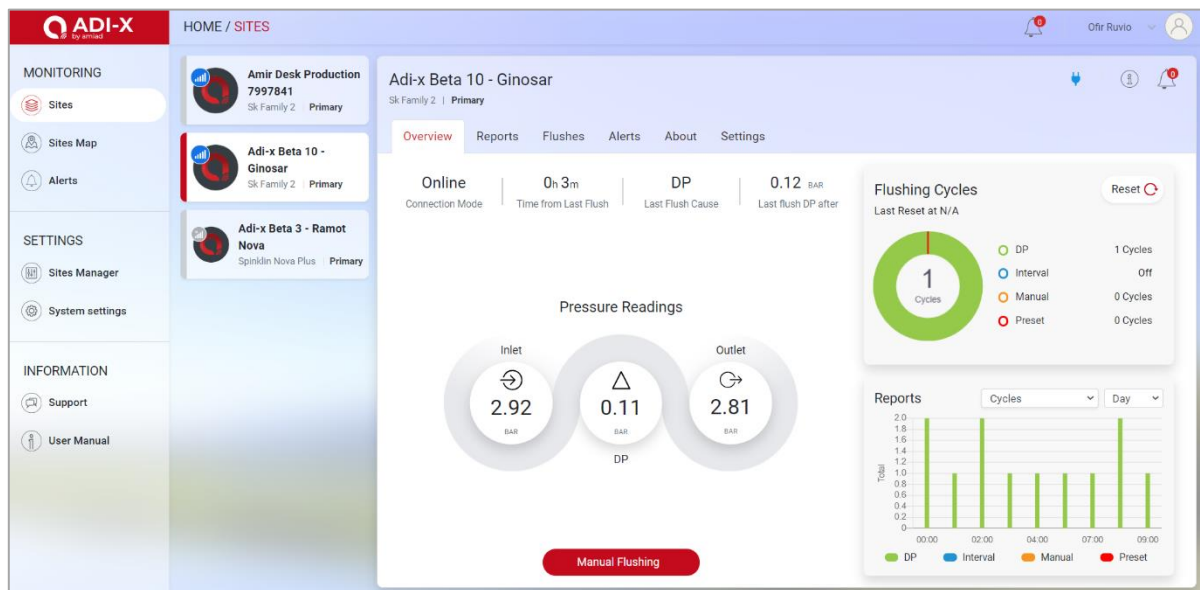
Each list element contains the following information:

| Element | Description |
|----------------------|--|
| Site picture | Site picture uploaded by site owner to recognize the site. |
| Communication status | Small icon on the site picture represents the communication status: Blue icon – the controller is connected. Grey icon – the controller is disconnected. |
| Site name | Site name given by site owner. |
| Filter type | Filter(s) model controlled by the controller. |
| Operation mode | Controller operation mode – primary or secondary. |

Notification center

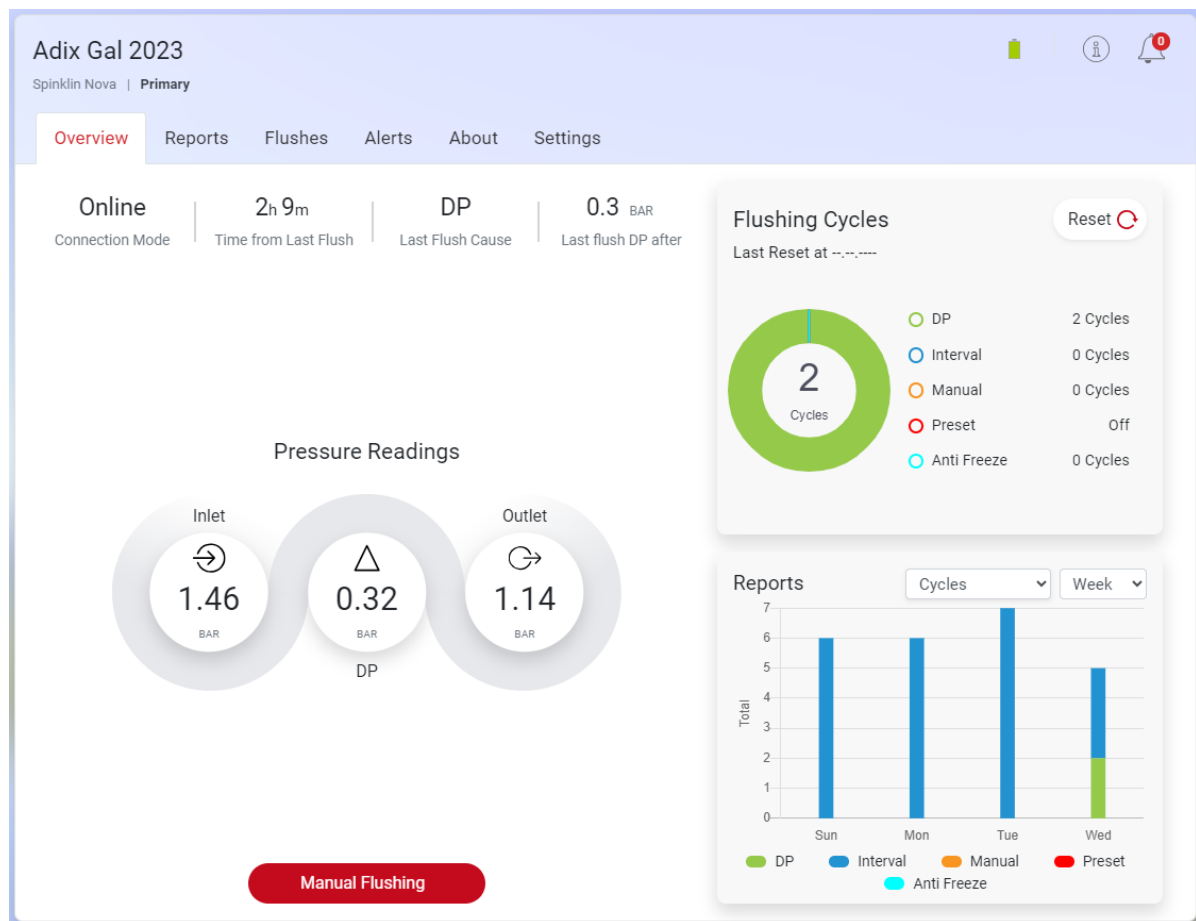
| Element | Description |
|-----------------------|--|
| Dropdown list | Allows selecting which notifications are shown – all / alerts / flushes / invitations. |
| List of notifications | Each element of the list contains following information: <ul style="list-style-type: none"> Notification text The name of controller where notification appeared |

Sites Page



| Element | Description |
|----------------------|---|
| Site picture | Site picture uploaded by site owner to recognize the site. |
| Communication status | Small icon on the site picture represents the communication status: Blue icon – the controller is connected. Grey icon – the controller is disconnected. |
| Site name | Site name given by site owner. |
| Filter type | Filter(s) model controlled by the controller. |
| Operation mode | Controller operation mode – primary or secondary. |
| Power mode | Power mode is represented by the icon: Plug – the controller is on AC power. Battery – the controller is on battery power. |
| Information icon | Place the cursor on the information icon to see the following information: <ul style="list-style-type: none"> FW version HW version Installation Date Total Flush Counter |
| Alerts icon | The number on the Alerts icon represents the number of active alerts for the specific controller. Click the Alerts icon to open the controller's Alerts tab on Sites page. |
| Connection mode | The controller connection mode – online or offline. |
| Last connection | Only in offline mode. The last time the controller was connected. |
| Next connection | Only in offline mode. The time of next attempt to connect to the controller. |
| Last flush DP after | Only in offline mode. The DP measured after flushing. Interval between end of flushing and DP measuring is determined by "Ignore DP" parameter. |
| Config synced | Only in offline mode. Indicates if controller configuration is up to date (last changes saved) – Yes or No. |
| Inlet | The current reading of the filter's inlet pressure. |
| DP | The pressure differential across the filter; calculated by subtracting the outlet pressure from the inlet pressure. |
| Time from last flush | The time since the end of the last flush cycle. |
| Last flush cause | The trigger that initiated the last flush. |

Overview tab



| Element | Description |
|----------------------------|--|
| Connection mode | The controller connection mode – online or offline. |
| Last connection | Only in offline mode. The last time the controller was connected. |
| Next connection | Only in offline mode. The time of next attempt to connect to the controller. |
| Config synced | Only in offline mode. Indicates if controller configuration is up to date. |
| Time from last flush | Only in online mode. The time since the end of the last flush cycle. |
| Last flush cause | Only in online mode. The trigger that initiated the last flush. |
| Last flush DP after | Only in online mode. The DP measured after flushing. Interval between end of flushing and DP measuring is determined by "Ignore DP" parameter. |
| Inlet | The current reading of the filter's inlet pressure. |
| Outlet | The current reading of the filter's outlet pressure. |
| DP | The pressure differential across the filter; calculated by subtracting the outlet pressure from the inlet pressure. |
| Manual Flushing button | Only in online mode. Click this button to start a manual flush cycle. |
| Flushing Cycles – diagram | Displays the ratio of flushing cycles started due to different causes. |
| Flushing Cycles – DP | The number of flush cycles started due to a DP event. |
| Flushing Cycles – Interval | The number of flush cycles started due to the time intervals program. Also counts the Antifreeze Protection Intervals Flushes. |
| Flushing Cycles – Manual | The number of flush cycles started due to a manual flush by the user. |







| Element | Description |
|------------------------------------|---|
| Flushing Cycles – Preset | The number of flush cycles started due to the preset start times. |
| Flushing Cycles – Anti Freeze | The number of flush cycles started due to Anti-Freeze trigger. |
| Flushing Cycles – Reset button | Click this button to reset the counters to zero (excluding total flush counter). |
| Reports – Data type drop-down list | The drop-down list for selection of data type to be displayed on the chart. |
| Reports – Period drop-down list | The drop-down list for selection of period for which the data will be displayed on the chart. |
| Reports – Chart | Displays the data according to the selected parameters (data type and period). |
| Last reset date | The date of the last resetting of the counters. |

Reports tab



| Element | Description |
|--------------------------|--|
| Data type drop-down list | The drop-down list for selection of data type to be displayed on the chart. |
| Time span buttons | Click Day/Week/Month button to select desired chart's time span. By default, last week events are shown. |
| Dates selection | Enables showing events between two dates. Select the desired chart's time span. |
| Chart | Displays the data according to the selected parameters (data type and time span). |

Flushes tab

| Adix Gal 2023 | | | | | | | |
|---|----------|-------|-----------|-----------|----------|------------------------|-------------------|
| Spinklin Nova Primary | | | | | | | |
| Overview Reports Flushes Alerts About Settings | | | | | | | |
| <div> <div>CSV</div> <div>Day Week Month</div> <div>from 24/12/23 to 28/12/23</div> </div> | | | | | | | |
| Action | Date | Time | Inlet | Outlet | DP | VOLUME FROM LAST FLUSH | 1 Min After Flush |
|  Interval | 28/12/23 | 10:34 | 1.48 BAR | 1.16 BAR | 0.32 BAR | 0.0 L | DP 0.32 BAR |
|  Interval | 28/12/23 | 06:34 | 1.46 BAR | 1.16 BAR | 0.3 BAR | 0.0 L | DP 0.3 BAR |
|  Interval | 28/12/23 | 02:34 | 1.46 BAR | 1.16 BAR | 0.3 BAR | 0.0 L | DP 0.32 BAR |
|  Interval | 27/12/23 | 22:34 | 1.46 BAR | 1.16 BAR | 0.3 BAR | 0.0 L | DP 0.3 BAR |
|  Interval | 27/12/23 | 18:34 | 1.46 BAR | 1.16 BAR | 0.3 BAR | 0.0 L | DP 0.32 BAR |
|  DP | 27/12/23 | 14:33 | 14.65 BAR | 13.38 BAR | 1.27 BAR | 0.0 L | DP 0.3 BAR |

| Element | Description |
|-------------------|---|
| Time span buttons | Click Day/Week/Month button to select desired list's time span. By default, last week events are shown. |
| Dates selection | Enables showing events between two dates. Select the desired list's time span. |
| List of flushes | <p>Display the flushes according to their occurrence time and date for selected period. Following information for every flush is shown:</p> <ul style="list-style-type: none"> • Flush cause • Flush date • Flush time • Inlet pressure before the flush • Outlet pressure before the flush • DP pressure before the flush • Volume from last flush • DP pressure after (the DP measured after flushing. Interval between end of flushing and DP measuring is determined by "Ignore DP" parameter). |

Alerts tab

Adix Gal 2023

Spinklin Nova | Primary

Overview

Reports

Flushes

Alerts

About

Settings

Active

History









CSV

Day

Week

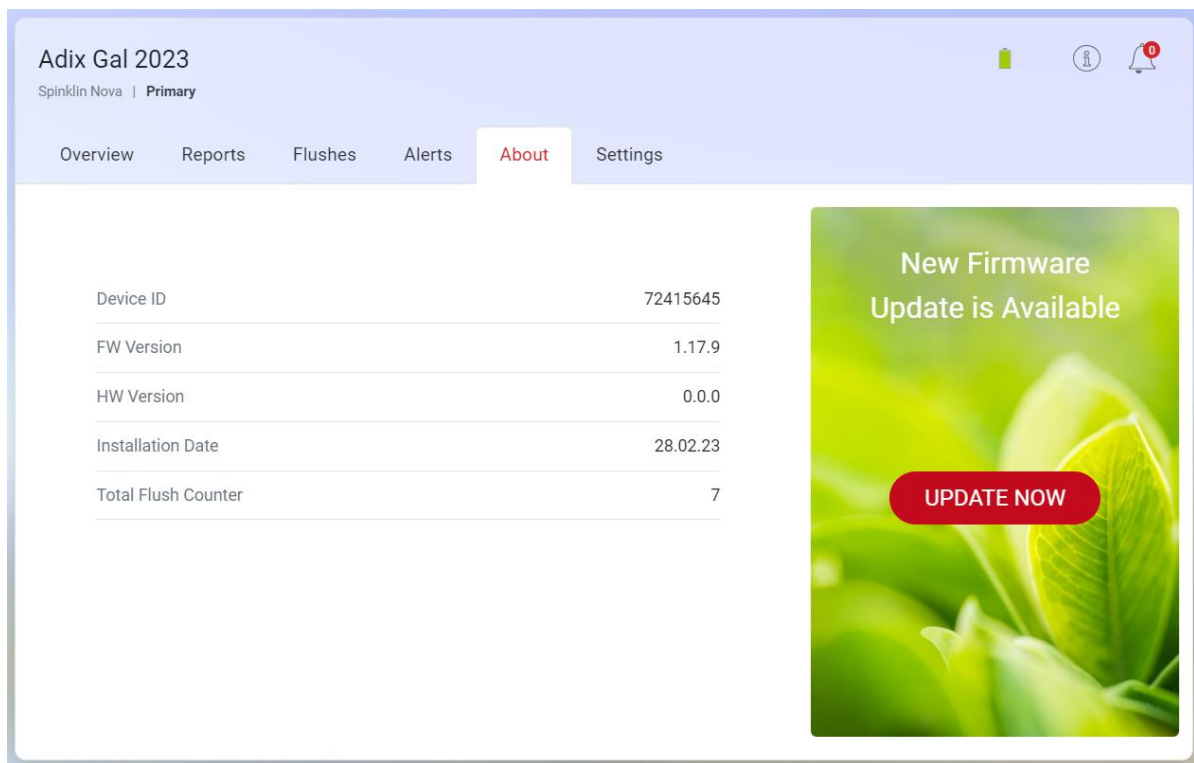
Month

from 24/12/23 to 28/12/23

| Alerts | | Date | Time |
|---|--------------------------------------|----------|-------|
|  High Inlet Pressure | OFF | 27/12/23 | 14:32 |
|  High DP Alert | OFF | 27/12/23 | 14:32 |
|  High Inlet Pressure | Inlet: 14.65 BAR Outlet: 11.46 BAR | 27/12/23 | 14:30 |
|  Outlet Sensor Pressure Read Failed | OFF | 27/12/23 | 14:30 |
|  High DP Alert | DP: 3.19 BAR | 27/12/23 | 14:30 |
|  Inlet Sensor Pressure Read Failed | OFF | 27/12/23 | 14:30 |
|  Outlet Sensor Pressure Read Failed | | 27/12/23 | 14:12 |
|  Inlet Sensor Pressure Read Failed | | 27/12/23 | 14:12 |

| Element | Description |
|------------------------|---|
| Active/History buttons | Click Active button to see the list of active alerts for the specific controller. Click History button to see the list of alert messages for the specific controller according to their occurrence time and date. |
| Time span buttons | Click Day/Week/Month button to select desired list's time span. By default, last week events are shown. |
| Dates selection | Enables showing events between two dates. Select the desired list's time span. |
| Alerts list | Display the active alerts or the list of alert messages according to their occurrence time and date (Active/History tab). |

About tab

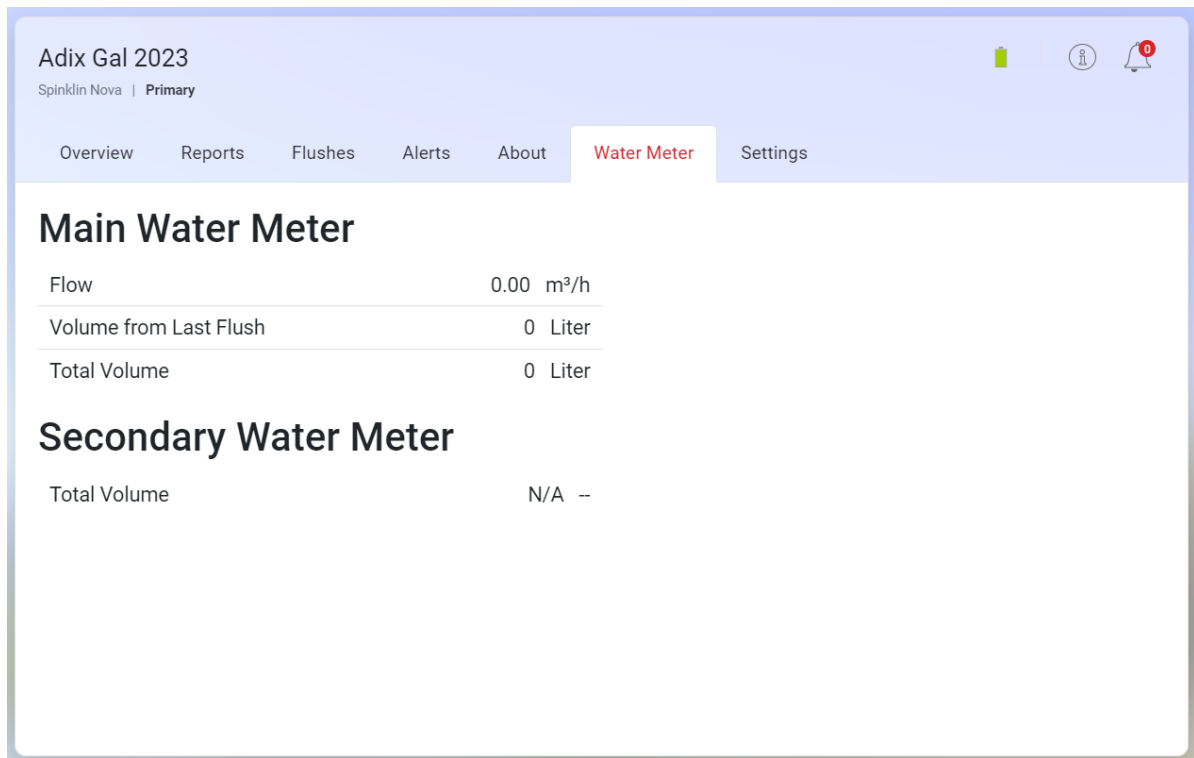


"About" tab contains the following information:

- Device ID
- FW version
- HW version
- Installation Date
- Total Flush Counter

If any updates are available, notification is shown here.

Water meter tab



Water meter tab appears only if water meter option is turned on (in Technician settings)

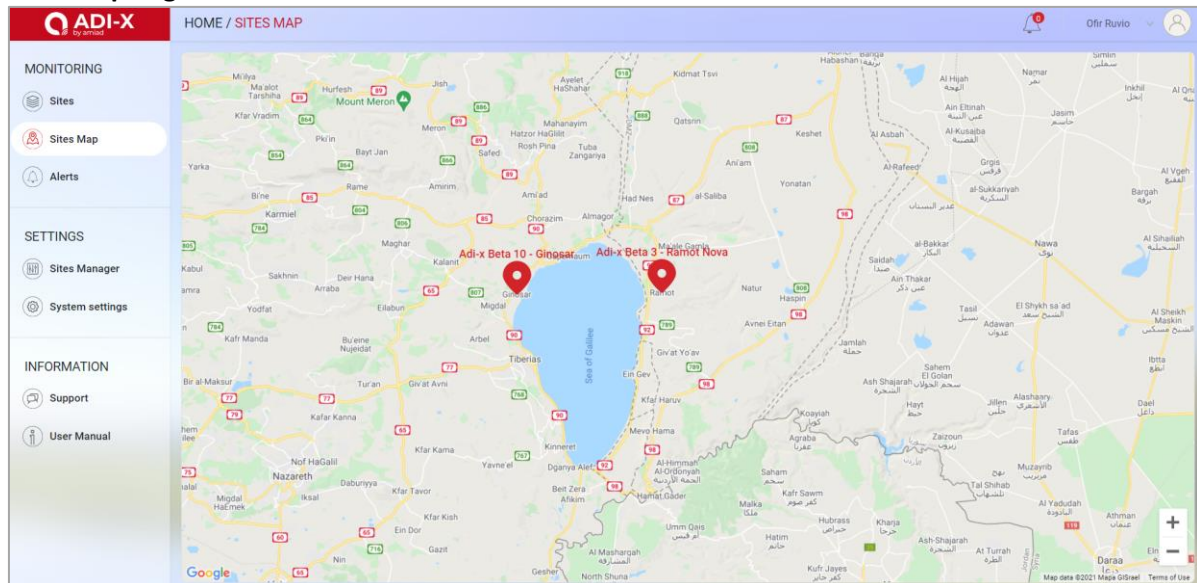
See Water Meter options with description in Appendix A. “ADI-X Controller **Settings**.”

Settings tab

This tab contains controller settings. See the list of settings with description in Appendix A. “ADI-X Controller **Settings**.”

Click the setting to change it. Click "Save" to save changes.

Sites Map Page



Sites Map page displays the map where all owned and linked Sites are marked. Use +/- buttons in bottom right corner or mouse wheel to zoom in/zoom out.

Alerts Page



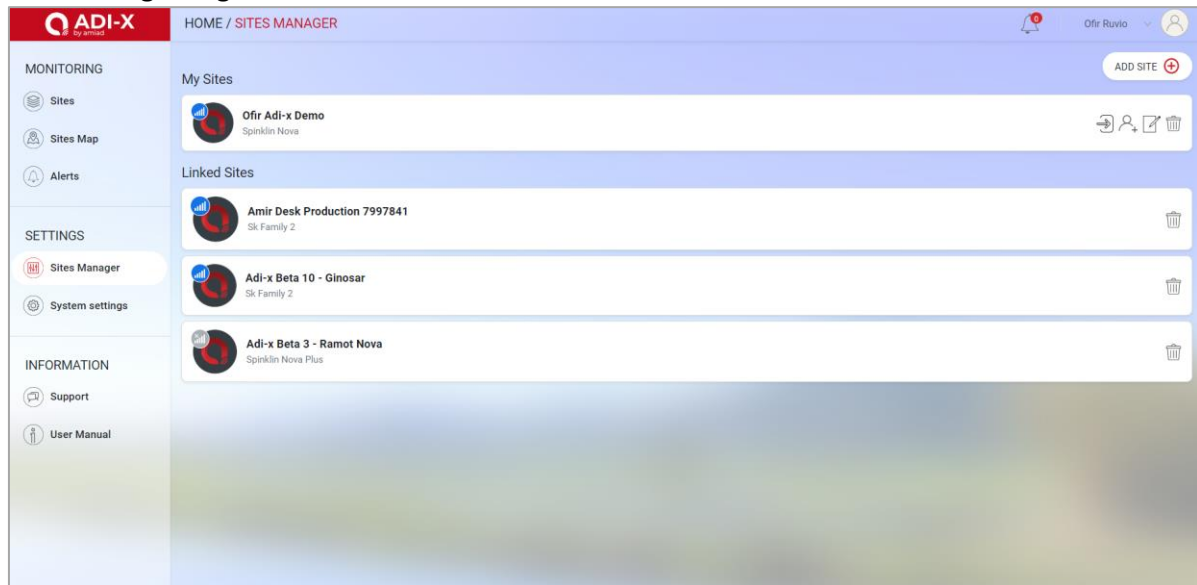
The Alerts page contains active alerts from all connected controllers and a list of alert messages according to their occurrence time and date.

The Alerts page contains the following elements:

| Element | Description |
|------------------------|--|
| Active/History buttons | Click Active to see the list of active alerts for the specific controller. Click History to see the list of alert messages according to their occurrence time and date. |
| Time span buttons | Available only on History tab. Click Day/Week/Month button to select desired list's time span. By default, last week events are shown. |
| Dates selection | Available only on History tab. Enables showing events between two dates. Select the desired list's time span. |
| Alerts list | Display the active alerts or the list of alert messages according to their occurrence time and date (Active/History tab). |
| Page navigation | Use arrows in bottom left corner to switch between pages. |

| Element | Description |
|----------------|---|
| Lines per view | Use drop-down list in bottom right corner to choose how many lines will be displayed on one page. |

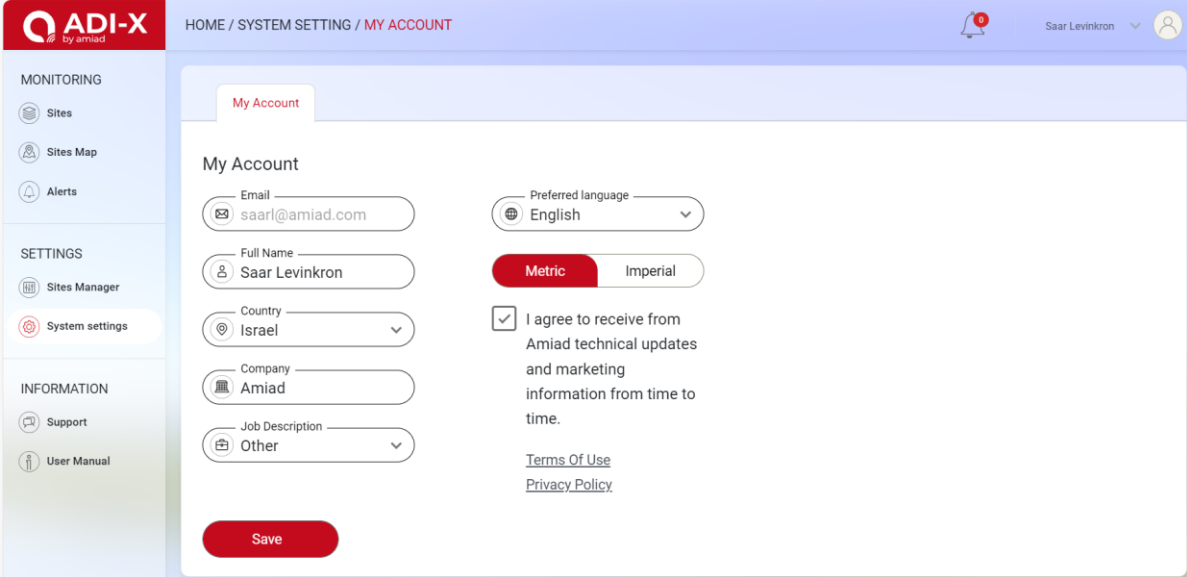
Sites Manager Page



Sites Manager page allows adding, editing, and deleting sites from the account. It contains the following elements:

| Element | Description |
|-------------------|---|
| Add Site button | Click this button to start adding a new controller to your user account. |
| My Sites List | <p>List of owned sites. Each element of the list contains the following information:</p> <ul style="list-style-type: none"> • Site picture • Communication status icon • Site name • Filter type • Invite icon – click to share the site with other account • Edit icon – click to edit Site ID, information, location, and manage invitations • Delete icon – click this icon to delete the site from the account |
| Linked Sites List | <p>List of linked sites. Each element of the list contains the following information:</p> <ul style="list-style-type: none"> • Site picture • Communication status icon • Site name • Filter type • Delete icon – click this icon to delete the site from the account. |

System Settings Page



The screenshot shows the 'My Account' tab in the System Settings page. The sidebar on the left has three main sections: MONITORING (Sites, Sites Map, Alerts), SETTINGS (Sites Manager, System settings), and INFORMATION (Support, User Manual). The 'System settings' option is highlighted. The main content area has a 'My Account' tab selected. The form includes the following elements:

- Email:** saarl@amiad.com
- Full Name:** Saar Levinkron
- Country:** Israel (drop-down list)
- Company:** Amiad
- Job Description:** Other (drop-down list)
- Preferred language:** English (drop-down list)
- Units selection:** Metric (selected), Imperial
- Receive updates from Amiad:** ☒ I agree to receive from Amiad technical updates and marketing information from time to time.
- Save button:** A red button labeled 'Save'.
- Links:** [Terms Of Use](#) and [Privacy Policy](#).

System settings page contains two tabs: My Account and Change Password. See details in the following tables:

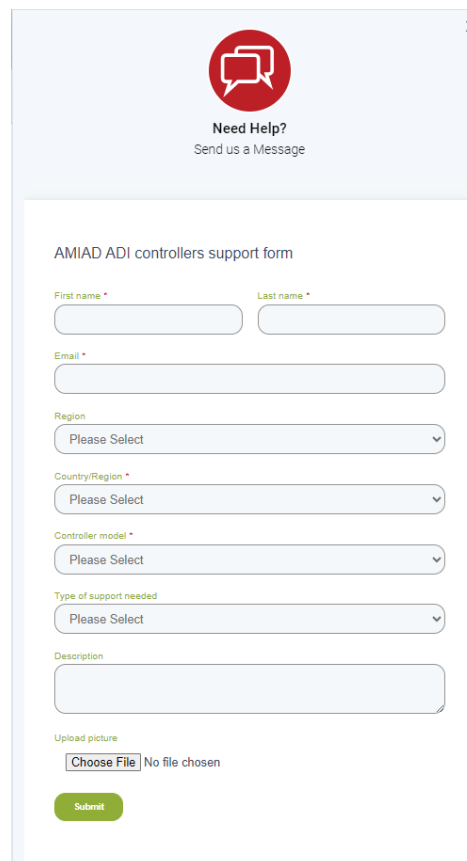
My Account tab

| Element | Description |
|----------------------------|---|
| Email | The email address you entered while creating an account. Cannot be changed. |
| Full name | User's full name. |
| Country | Country of operation (drop-down list). |
| Company | User's company name. |
| Job description | User's job description (drop-down list). |
| Preferred language | The language of applications (drop-down list). |
| Units selection | Units to be used in applications. |
| Receive updates from Amiad | Check this checkbox to receive updates from Amiad. |
| Save button | Click Save to save any changes. |

Support Pop-Up Window

Support Pop-Up Window allows sending messages to Amiad support.

It contains the following elements:



The screenshot shows a support pop-up window titled "Need Help? Send us a Message". It contains the "AMIAD ADI controllers support form" with the following fields:

- First name *
- Last name *
- Email *
- Region (Please Select)
- Country/Region * (Please Select)
- Controller model * (Please Select)
- Type of support needed (Please Select)
- Description
- Upload picture (Choose File | No file chosen)
- Submit button

User Manual Page

The User manual page contains the link to the digital version of the User Manual.

Getting to know the ADI-X Mobile Application

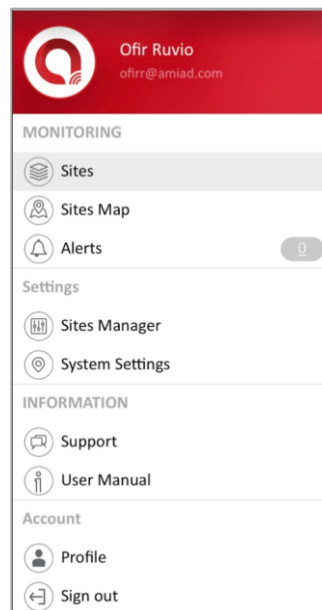
Take a few moments to familiarize yourself with the ADI-X Mobile Application interface.

ADI-X mobile application has eight main screens. Every application screen has a Header line containing the Menu button and screen name. You can switch between the app screens using the Menu button. See details in the following tables.

Header Line Details

| Element | Description |
|-------------|---|
| Menu button | Opens the Menu to switch between screens. |
| Screen name | The name of the current screen. |

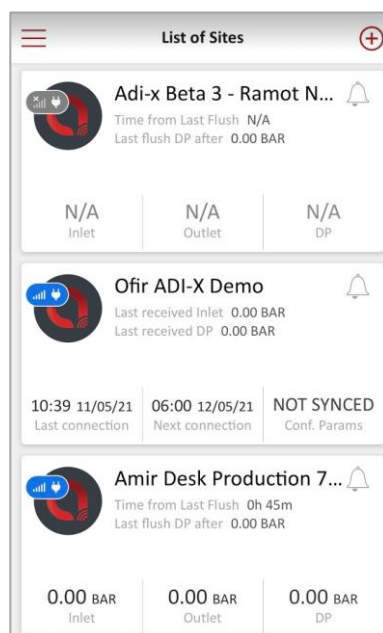
Menu Details



| Element | Description |
|-----------------------------------|--|
| Upper red area | Contains the User name and account email. |
| Monitoring – Sites | The Sites screen contains the list of all owned and linked Sites as well as Sites overview and settings and Add Site button. |
| Monitoring – Sites Map | The Sites Map screen contains the map where all owned and linked sites are marked, as well as Add Site button. |
| Monitoring – Alerts | The Alerts screen contains active alerts from all connected controllers and a list of alert messages according to their occurrence time and date. |
| Settings – Sites Manager | The Sites Manager screen contains a list of all owned and linked Sites, as well as Add Site button. |
| Settings – System settings | The System settings screen contains – language and units preferences. |
| Information – Support | The Support contains a message pop-up window. |
| Information – User Manual | The User Manual contains a link to the digital version of the User Manual. |
| Account – Profile | The Profile screen contains the user account information. |
| Account – Sign out | The Sign out screen allows the user to sign out of the account. |

Screens Details

Sites Screen



Sites screen contains all owned and linked Sites List.

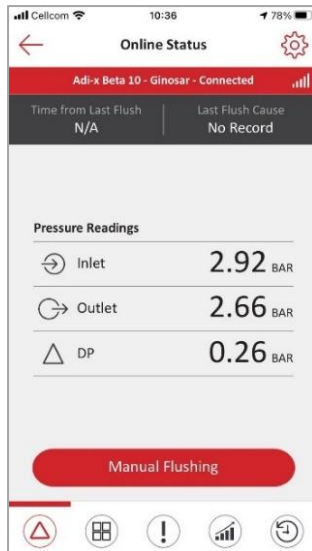
The “Add Site” button is located in the upper right corner.

Each list element contains the following information:

| Element | Description |
|----------------------|--|
| Site picture | Site picture uploaded by site owner to recognize the site. |
| Communication status | Small icon on the site picture represents the communication status: Blue icon – the controller is connected. Grey icon – the controller is disconnected. |
| Power mode | Small icon on the site picture represents the power mode: Plug – the controller is on AC power. Battery – the controller is on battery power. |
| Site name | Site name given by site owner. |
| Time from last flush | Only in online mode. The time since the end of the last flush cycle. |
| Last flush DP after | Only in online mode. The DP measured after flushing. Interval between end of flushing and DP measuring is determined by "Ignore DP" parameter (see Appendix A. “ADI-X Controller Settings”). |
| Last received inlet | Only in offline mode. Last inlet pressure received when connected. |
| Last received DP | Only in offline mode. Last DP received when connected. |
| Alerts icon | The number on Alerts icon represents the number of active alerts for the specific controller. Click the Alerts icon to open Alerts tab of the Site. |
| Inlet | Only in online mode. The current reading of the filter's inlet pressure. |
| Outlet | Only in online mode. The current reading of the filter's outlet pressure. |
| DP | Only in online mode. The pressure differential across the filter; calculated by subtracting the outlet pressure from the inlet pressure. |
| Last connection | Only in offline mode. The last time the controller was connected. |
| Next connection | Only in offline mode. The time of next attempt to connect to the controller. |
| Conf. Params | Only in offline mode. Indicates if controller configuration is up to date (last changes synchronized with controller) – Synced / Not synced |

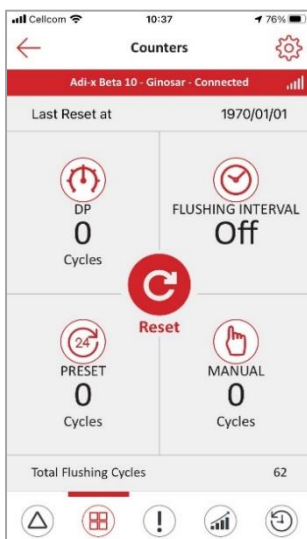
Click on Site name to open Site details. There are 5 tabs and Settings menu for each Site.
Scroll through these tabs by swiping to the right or to the left or by clicking on the designated icons that appear at the bottom of the screen.

Online status tab



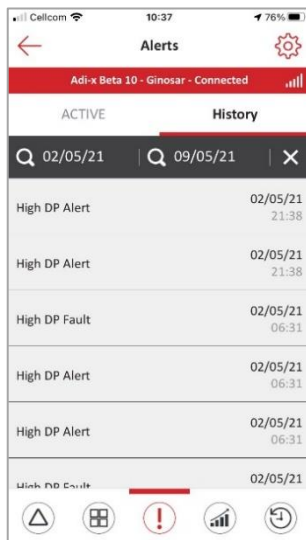
| Element | Description |
|-------------------------|---|
| The upper red/grey line | Displays the name of the site and the communication status: connected / disconnected. |
| Last connection | Only in offline mode. The last time the controller was connected. |
| Next connection | Only in offline mode. The time of next attempt to connect to the controller. |
| Time from last flush | Only in online mode. The time since the end of the last flush cycle. |
| Last flush cause | Only in online mode. The trigger that initiated the last flush. |
| Pressures – Inlet | The current reading of the filter's inlet pressure. |
| Pressures – Outlet | The current reading of the filter's outlet pressure. |
| Pressures – DP | The pressure differential across the filter; calculated by subtracting the outlet pressure from the inlet pressure. |
| Manual Flushing button | Only in online mode. Click this button to start a manual flush cycle. |

Counters tab



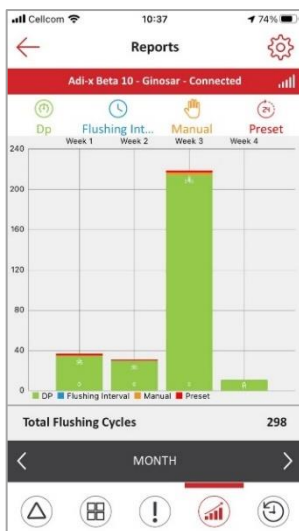
| Element | Description |
|--------------------------|--|
| The upper red/grey line | Displays the name of the site and the communication status. connected / disconnected. |
| Last reset at: | The date of the last resetting of the counters. |
| DP Cycles | The number of flush cycles started due to a DP signal. |
| Flushing Interval Cycles | The number of flush cycles started due to the time intervals program. Also counts the Antifreeze Protection Intervals Flushes. |
| Preset Cycles | The number of flush cycles started due to the preset start times. |
| Manual Cycles | The number of flush cycles started due to a manual start command issued by the user. |
| Total Flushing Cycles | The total number of flush cycles started for any reason. |
| Reset Button | Click this button to reset the counters to zero (excluding total flushing counter). |

Alerts tab



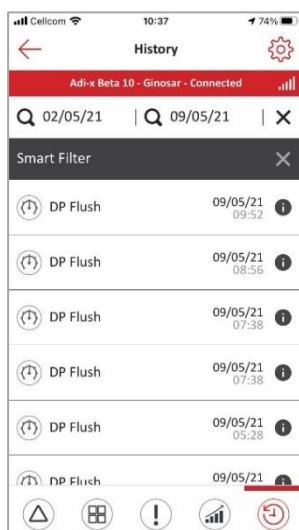
| Element | Description |
|---------------------|--|
| Active/History tabs | Click Active to see the list of active alerts for the specific controller. Click History to see the list of alert messages according to their occurrence time and date. |
| Dates selection | Available only on History tab. Enables showing events between two dates. Select the desired list's time span. |
| Filter by site | Enables filtering events according to the site name. |
| Alerts list | Displays the active alerts or the list of alert messages according to their occurrence time and date (Active / History tab). |

Reports tab



| Element | Description |
|-------------------------|---|
| The upper red/grey line | Displays the name of the site and the communication status. connected / disconnected. |
| The second line | Displays icons of the different flush types. Select the desired icons to be displayed on the chart. |
| The chart window | Displays the number of flush cycles according to the selected icons. |
| Total Flushing Cycles | The total number of flush cycles currently displayed in the chart window. |
| The lower black line | Enables the user to select the chart's time span (day, week, month). |

History tab



| Element | Description |
|-------------------------|--|
| The upper red/grey line | Displays the name of the site and the communication status. connected / disconnected. |
| The second line | Enables showing events between two dates. |
| Smart Filter | Enables filtering events according to the four flush types (Flushing interval, DP, Manual, Preset). |
| The events list | Displays the events messages according to their occurrence time and date. Flush cause, Flush date, and Flush time are shown in every row of the list. Click "i" icon to see the following information: <ul style="list-style-type: none"> Inlet pressure before the flush Outlet pressure before the flush DP pressure before the flush DP pressure after (the DP measured after flushing. Interval between end of flushing and DP measuring is determined by "Ignore DP" parameter). |

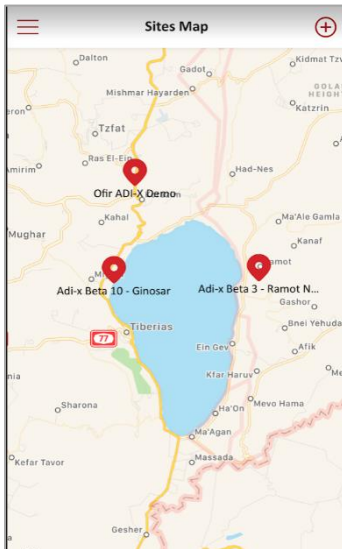
Settings menu

Enter the Settings menu by clicking on the "⚙️" icon in the upper right corner of any of the 5 tabs. This menu contains controller settings. See the list of settings with description in Appendix A. "ADI-X Controller Settings".

Click the setting to change it. Click "Save" to save changes.

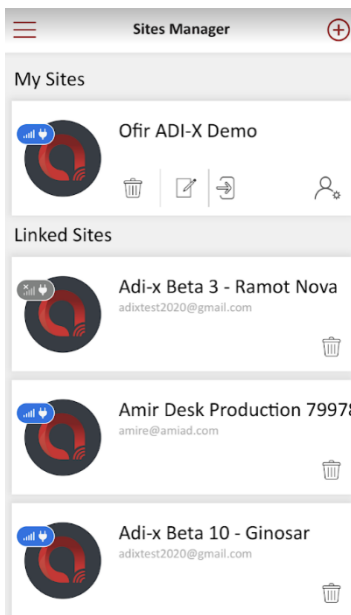
Sites Map Screen

Sites Map screen displays the map where all owned and linked Sites are marked. The Add Site button is located in the upper right corner.



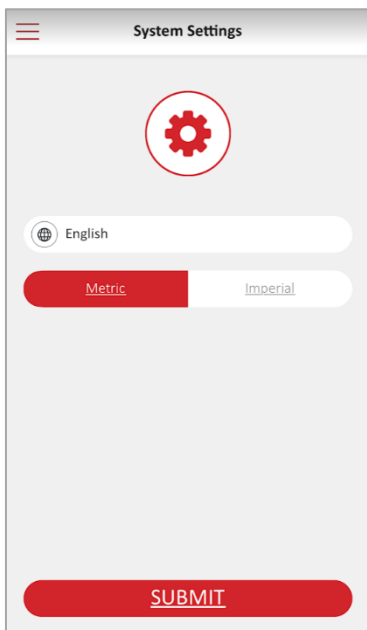
Sites Manager Screen

Sites Manager screen allows adding and deleting sites from the account. The Add Site button is located in the upper right corner.



| Element | Description |
|-------------------|---|
| My Sites List | List of owned sites. Each element of the list contains the following information: <ul style="list-style-type: none"> Site picture Communication status icon Power mode icon Site name Delete icon – click this icon to delete the site from the account Edit icon – click this icon to edit site information Invite icon – click this icon to see list of invitations and send new invitation. |
| Linked Sites list | List of linked sites. Each element of the list contains the following information: <ul style="list-style-type: none"> Site picture Communication status icon Power mode icon Site name Site owner email Delete icon – click this icon to delete the site from the account. |

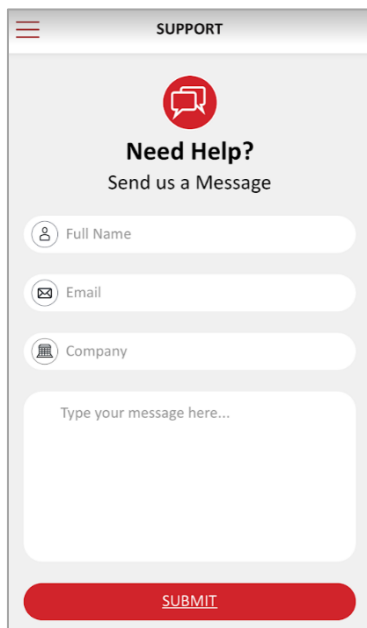
System Settings Screen



The System Settings screen features a hamburger menu icon in the top left corner. The title 'System Settings' is centered at the top. Below the title is a red gear icon inside a circle. Underneath the gear icon is a language selection dropdown menu currently set to 'English'. Below the language menu are two unit selection buttons: 'Metric' (highlighted in red) and 'Imperial'. At the bottom of the screen is a large red 'SUBMIT' button.

| Element | Description |
|--------------------|-----------------------------------|
| Preferred language | The language of applications. |
| Units selection | Units to be used in applications. |
| SUBMIT button | Click SUBMIT to save any changes. |

Support Screen



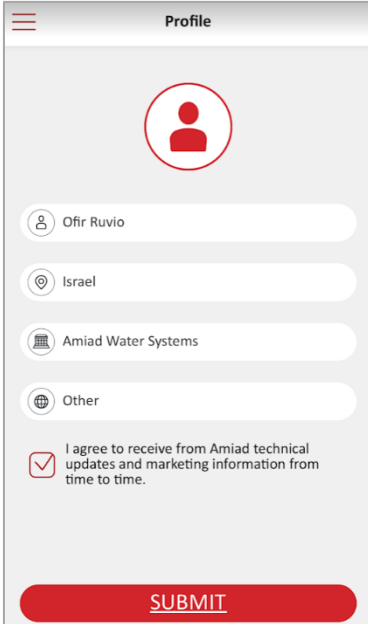
The Support screen features a hamburger menu icon in the top left corner. The title 'SUPPORT' is centered at the top. Below the title is a red speech bubble icon inside a circle. Underneath the icon is the text 'Need Help?' followed by 'Send us a Message'. Below this text are three input fields: 'Full Name', 'Email', and 'Company'. Below the input fields is a large text area with the placeholder text 'Type your message here...'. At the bottom of the screen is a large red 'SUBMIT' button.

| Element | Description |
|---------------|---|
| Full name | Your full name |
| Email | Your email |
| Company | Your company name |
| Message field | Write your message to Amiad support here. |
| SUBMIT button | Click SUBMIT to send your message to Amiad support. |

1.1.1.1 User Manual Screen

The User manual screen contains the link to the digital version of the User Manual.

1.1.1.2 Profile Screen



| Element | Description |
|----------------------------|--|
| Full name | User's full name. |
| Country | Country of operation (drop-down list). |
| Company | User's company name. |
| Job description | User's job description (drop-down list). |
| Receive updates from Amiad | Check this checkbox to receive updates from Amiad. |
| SUBMIT button | Click SUBMIT to save any changes done. |

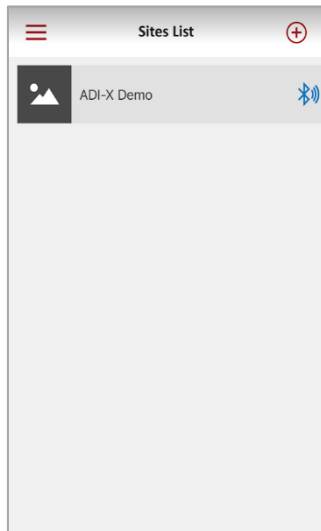
Getting to know the ADI-BLE Mobile Application

Take a few moments to familiarize yourself with the ADI-BLE Mobile Application interface.

ADI-BLE Mobile application consists of Sites List screen, containing the list of all paired controllers, Menu screen, and Site tabs that are available for each active site. See details in the following tables.

Screens Details

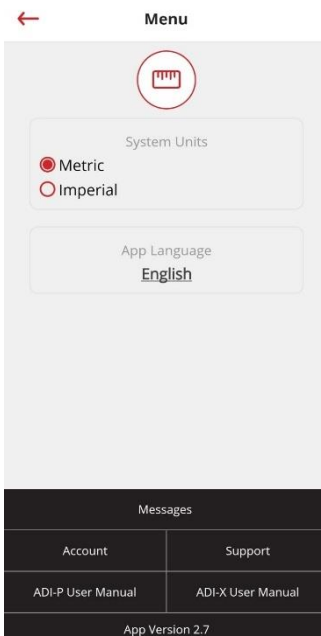
Sites List Screen



| Element | Description |
|----------------------|---|
| Menu button | Opens Menu screen. |
| Add new site button | Starts pairing process for new site. |
| List of paired sites | <p>List of all paired sites. Clicking on active site will open Site tabs.</p> <p>Each element of the list contains following information:</p> <ul style="list-style-type: none"> Site picture Site name Bluetooth® icon – blue when available and grey when out of range |

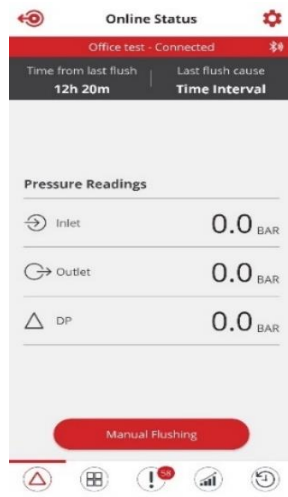
Menu Screen

Enter the menu screens by clicking on the Menu icon in the upper left corner of the Site List screen:



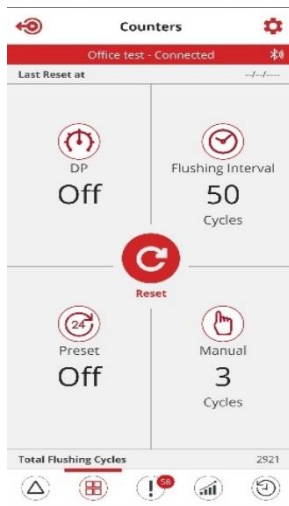
| Element | Description |
|--------------|--|
| System Units | Select the system engineering units: Metric or US. |
| Language | Select the application user interface language: English, French, German, Hebrew, Italian, Spanish, Portuguese, Chinese, Russian, or Turkish. |
| Messages | Messages from the Amiad system. |
| Account | Displays the registration details of the system: User name, User email, User country, User company and User job description. |
| User Manual | This screen shows the user manual. |
| Support | Contact Us screen. |
| App Version | Displays the current version of the ADI-BLE Application. |

The Online Status screen:



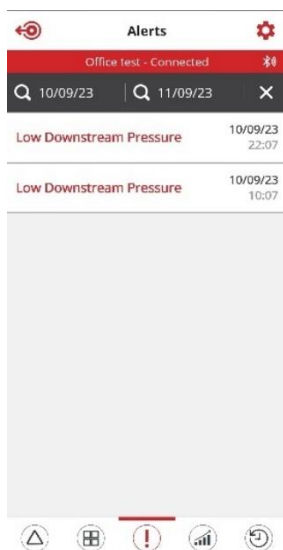
| Element | Description |
|----------------------|---|
| The upper red line | Displays the name of the currently connected controller and the communication status. |
| Time from last flush | The time since the end of the last flush cycle. |
| Last flush cause | The trigger that initiated the last flush. |
| Pressures - Inlet | The current reading of the filter's inlet pressure. |
| Pressure - Outlet | The current reading of the filter's outlet pressure. |
| Pressure - DP | The pressure differential across the filter; calculated by subtracting the outlet pressure from the inlet pressure. |
| Manual Flushing | Press this icon to start a manual flush cycle. |

The Counters screen:



| Element | Description |
|-----------------------|--|
| The upper red line | Displays the name of the currently connected controller and the communication status. |
| Last reset at: | The date of the last resetting of the counters. |
| DP Cycles | The number of flush cycles started due to a DP signal. |
| Interval Cycles | The number of flush cycles started due to the time intervals program. Also count the Antifreeze Protection Intervals Flushes |
| Preset | The number of flush cycles started due to the preset daily start time and the current status of this program. |
| Manual Cycles | The number of flush cycles started due to a manual start command issued by the user. |
| Total Flushing Cycles | The total number of flush cycles started for any reason. |
| Reset Button | Press this button to reset the counters to zero. |

Alerts screen:

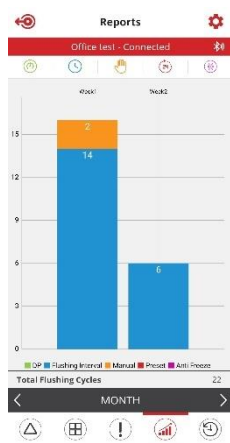


| Element | Description |
|-----------------------------|---|
| The upper red line | Displays the name of the currently connected controller and the communication status. |
| The second line | Enables sorting alerts between two dates and resetting an alert. |
| The alerts list (see below) | Display the alert messages according to their occurrence time and date. |

Alarms and faults list:

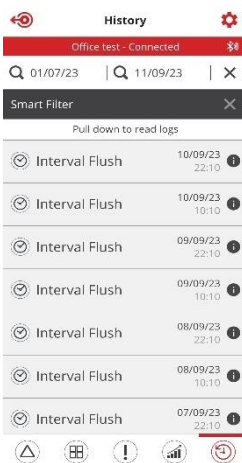
| Alert | Possible cause | Recommended Action |
|--------------------------------|--|--|
| Low battery | Low battery voltage | Replace all 4 controller batteries |
| Low battery pause | Controller paused due to low battery voltage | Replace all 4 controller batteries |
| High DP alarm | DP value is \geq HDA threshold (units: bar/100) | Alert only |
| High DP fault | DP value is \geq HDF threshold (units: bar/100) | Alert only |
| Continuous mode alert | Controller exceeded number of consecutive flushes for alerts | Check configuration/check DP: If high, perform manual flush with downstream valve closed, open the filter for inspection |
| DFU failed | Firmware update fail | Validate mobile cellular reception and try again |
| Out of range app connection | Controller out of range during connection session | Get closer to the controller with the smartphone (within Bluetooth® range) |
| Sensor pressure read failed | The number of the sensor that failed to read. Inlet(0), Outlet(1), Piston(2) | confirm tubes proper connection If continues - contact support |
| Capacitor charger start failed | Unable to charge capacitor | Contact support |
| Load capacitor timeout | Capacitor charge timeout | Check battery voltage level, contact support |
| Low downstream pressure | The outlet pressure is less than 1.5 bar | Check the filter and the water system |
| High upstream pressure | The inlet pressure is greater than maximum allowed pressure for the filter | Adjust the water system inlet pressure |
| Anti Freeze Active | Freezing Protection start, as a result of Low Temperature Threshold | |
| Anti Freeze Exit | Stop Freezing Protection procedure | |

Reports screen:



| Element | Description |
|-----------------------|---|
| The upper red line | Displays the name of the currently connected controller and the communication status. |
| The second line | Displays icons of the different flush types. Select the desired icons to be displayed on the chart. |
| The chart window | Displays the number of flush cycles according to the selected icons. |
| Total Flushing Cycles | The total number of flush cycles currently displayed in the chart window. |
| The lower black line | Enables the user to select the chart's time span (day, week, month). |

History screen:



| Event Type | Timestamp |
|----------------|----------------|
| Interval Flush | 10/09/23 22:10 |
| Interval Flush | 10/09/23 10:10 |
| Interval Flush | 09/09/23 22:10 |
| Interval Flush | 09/09/23 10:10 |
| Interval Flush | 08/09/23 22:10 |
| Interval Flush | 08/09/23 10:10 |
| Interval Flush | 07/09/23 22:10 |

| Element | Description |
|--------------------|---|
| The upper red line | Displays the name of the currently connected controller and the communication status. |
| The second line | Enables sorting events between two dates and deleting an event. |
| The black line | Enables filtering events according to the four flush types (DP, Interval, Manual, Preset, Anti Freeze). |
| The events list | Display the events messages according to their occurring time and date. |

Click the setting to change it. Click "Save" to save changes.

ADI-X Controller Operation

The ADI-X Controller can be operated in four ways:

1. Hardware interface (ADI-X control panel buttons).
2. Via ADI-X Desktop Application.
3. Via ADI-X Mobile Application.
4. Via ADI-BLE Mobile Application.

This chapter describes the ADI-X controller operation methods.

The following is the instructions for all the applicable controlling methods.

ADI-X Controller Buttons

There are two main buttons on the ADI-X controller control panel.

Following is the functionality description of the buttons:

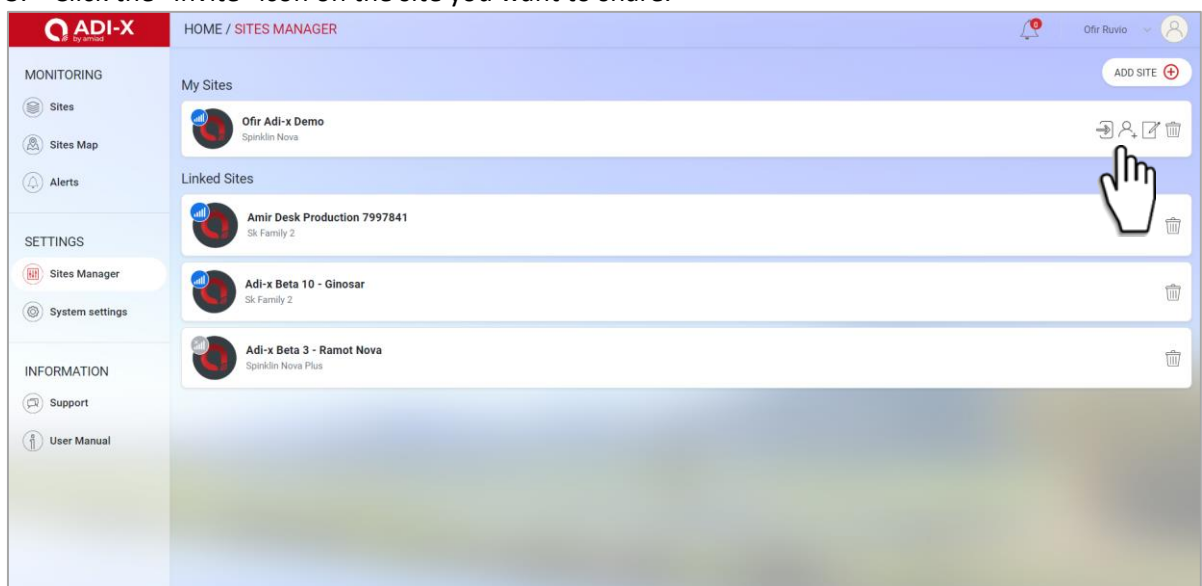
| | Left button | Right button |
|-------------------|---------------------------|----------------------------------|
| Short push | Turn on display backlight | Start manual flush |
| Long push | Enter communication mode | Force full cloud synchronization |

ADI-X Controller Sharing

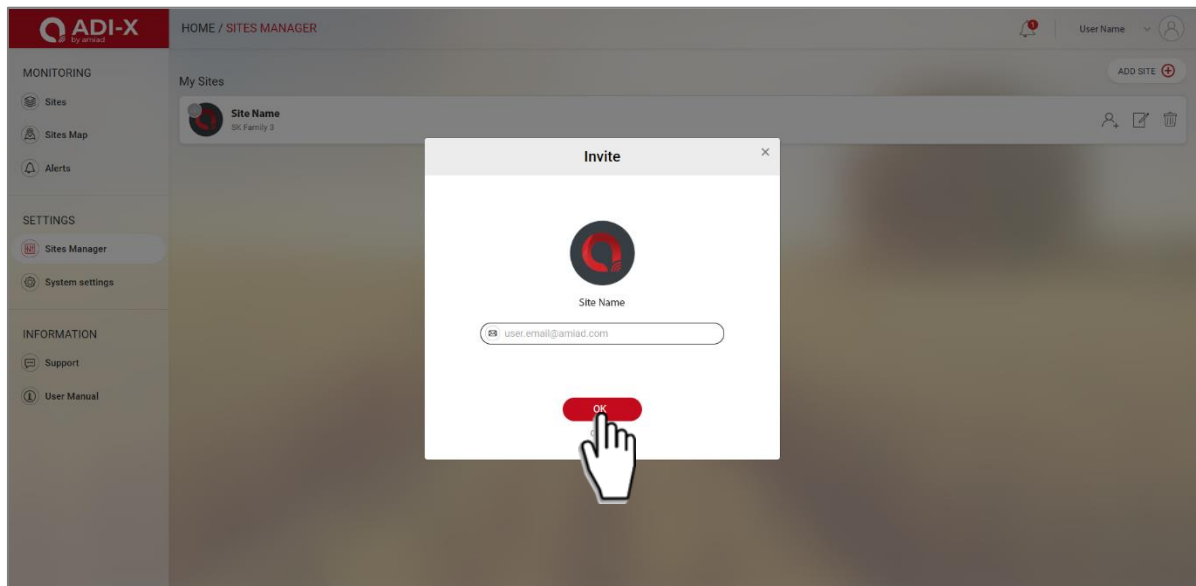
ADI-X controller can communicate via cloud with one account only. If another account needs access to the controller via cloud communication, use the share site function. Shared site will be displayed as "Linked site" in the sites list. Linked account has full access to controller operation but cannot change the site information and cannot share the site forward (to additional user).

To share the site using **ADI-X Desktop** application:

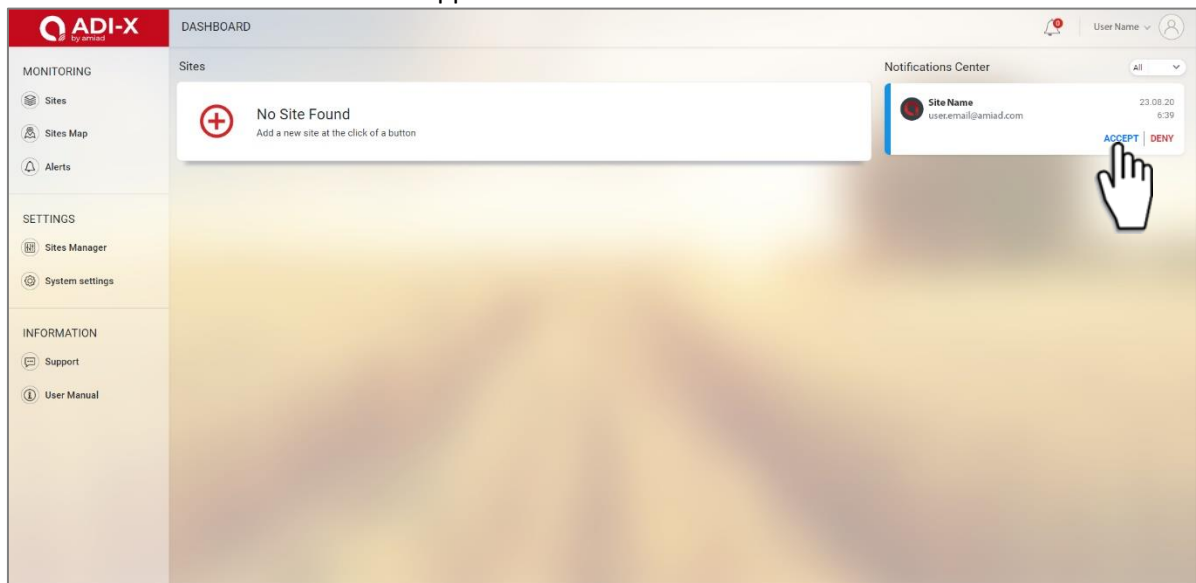
1. Sign in to **ADI-X Desktop** application.
2. Go to "Sites manager" screen in the left menu and choose with site to share.
3. Click the "Invite" icon on the site you want to share.



4. An Invite window will open. Enter email address of the user you want to share your site with. Click "OK". The invitation has been sent.

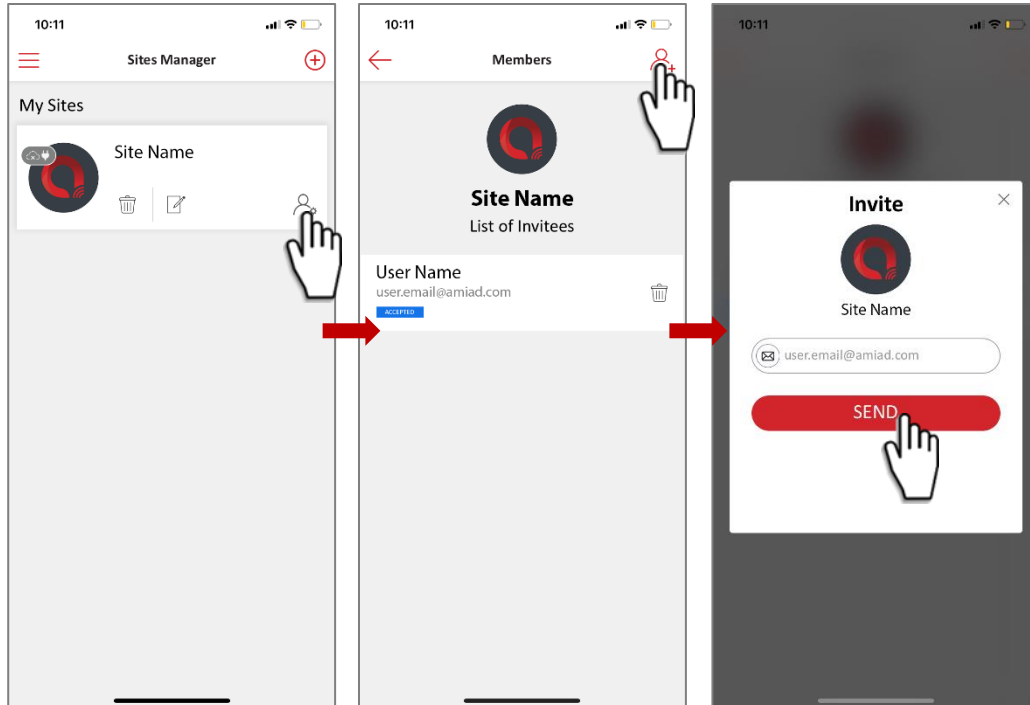


5. An invitation notification will appear in the Notifications Center. Click "ACCEPT" to accept the invitation. The site will appear in the linked sites list.

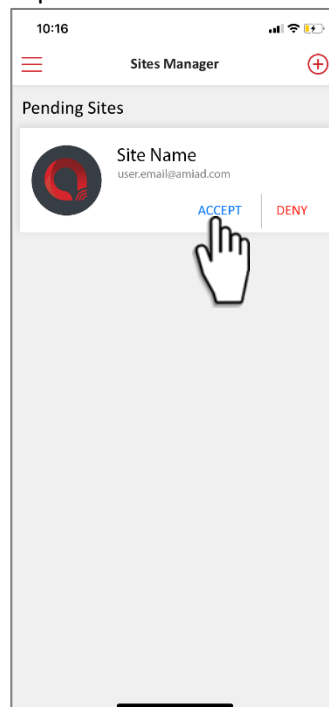


To share the site using ADI-X Mobile application:

1. Sign in to **ADI-X** Mobile application.
2. On "Sites manger" screen click the "Share" icon on the site you want to share.
3. Click the "Invite" icon in the upper right corner to send a new invitation.
4. In the "Invite" window, enter the email address of the user you want to share your site with. Click "OK". The invitation has been sent.



5. In the account you shared with an invitation notification will appear on the "Sites Manager" screen. Click "ACCEPT" to accept the invitation. The site will appear in the list of linked sites.



ADI-X Controller Parameters Setting

ADI-X Controller parameters can be set via **ADI-X Desktop** application, **ADI-X Mobile** application, and **ADI-BLE Mobile** application. See the list of settings and their description in Appendix A. "ADI-X Controller Settings".

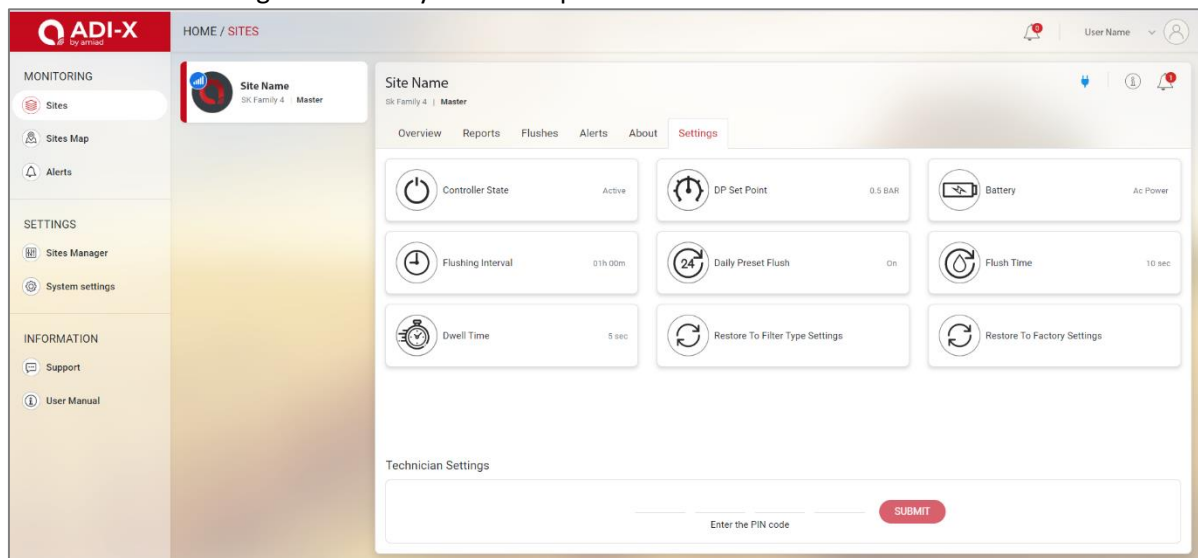
Access to the Technician Settings requires a 4-digit code: "1234".

The Technician Settings contain the system's basic and fundamental settings.

Do not change any of these settings if you are not fully familiar with the specific filtration system, filter type, and controller. Incorrect settings may lead to nonoperational system.

To set the controller parameters using **ADI-X Desktop** application:

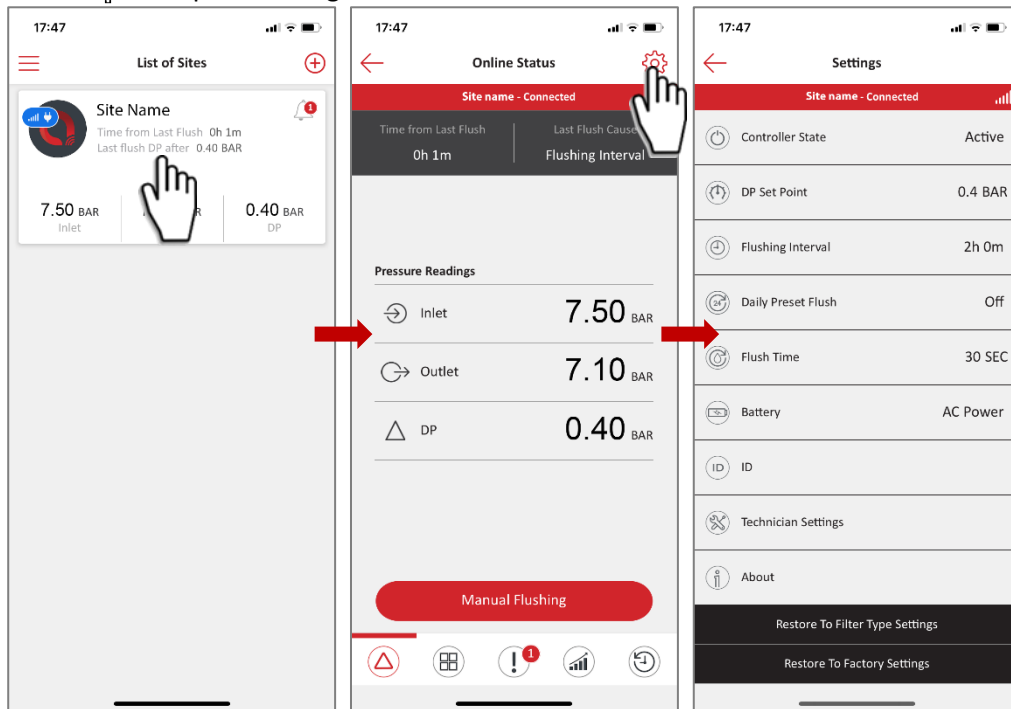
1. Open **ADI-X Desktop** application. Sign in with your email and password if needed.
2. Go to "Sites" tab in left menu and select the site where you want to set parameters.
3. Go to "Settings" tab. Here you can set parameters.



4. Enter the 4-digit code (1234) and click "SUBMIT" to enter the Technician Settings.
Notice: Do not change any of these settings if you are not fully familiar with the specific filtration system, filter type, and controller. Incorrect settings may lead to nonoperational system.
5. Make sure to click "Save" after changing any of the settings.

To set the controller parameters using **ADI-X Mobile** application:

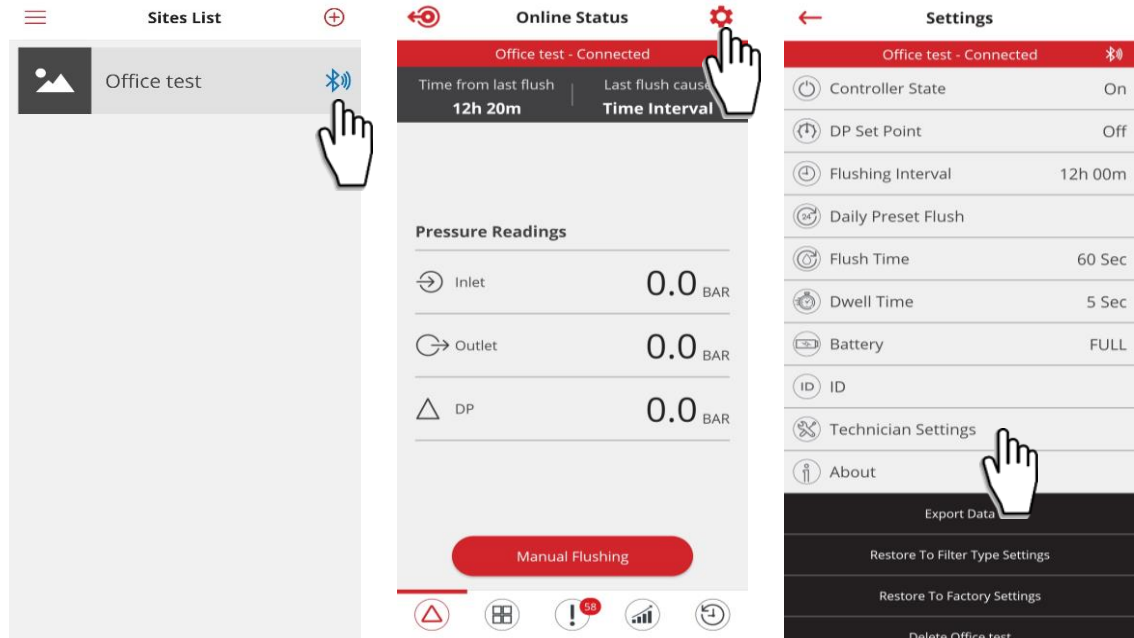
1. Sign in to **ADI-X Mobile** application.
2. Enter the "Sites" screen and select the site to set parameters.
3. Click "⚙️" to open "Settings" menu.



4. Click "Technician Settings" and enter 4-digit code (1234) to access Technician Settings.
Notice: Do not change any of these settings if you are not fully familiar with the specific filtration system, filter type, and controller. Incorrect settings may lead to nonoperational system.
5. Make sure to click "Save" after changing any of the settings.

To set the controller parameters using **ADI-BLE Mobile** application:

1. Open **ADI-BLE Mobile** Application. Verify that the controller is within Bluetooth® range (Bluetooth® icon is blue).
2. Select the required site where you want to set the parameters.
3. Click "⚙️" to open "Settings" menu.



4. Click "Technician Settings" and enter 4-digit code (1234) to access Technician Settings.
Notice: Do not change any of these settings if you are not fully familiar with the specific filtration system, filter type, and controller. Incorrect settings may lead to nonoperational system.
5. Make sure to click "Save" after changing any of the settings.

ADI-X Controller Parameters Restoration

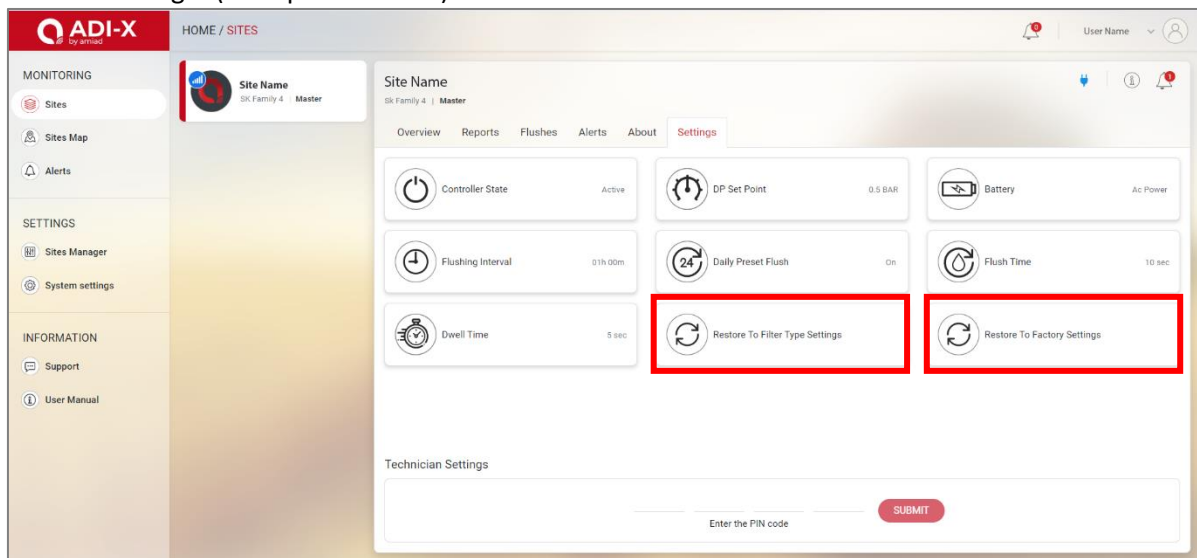
ADI-X Controller has two options for parameters restoration:

1. **Restore to Filter Type Settings** – reset the controller's data and restore the default parameters for the current filter type which is controlled by this controller.
2. **Restore to Factory Settings** – delete all the controller's data and restore the factory default settings. The default filter model will be according to the filter provided with the controller, or according to the customer's initial settings.

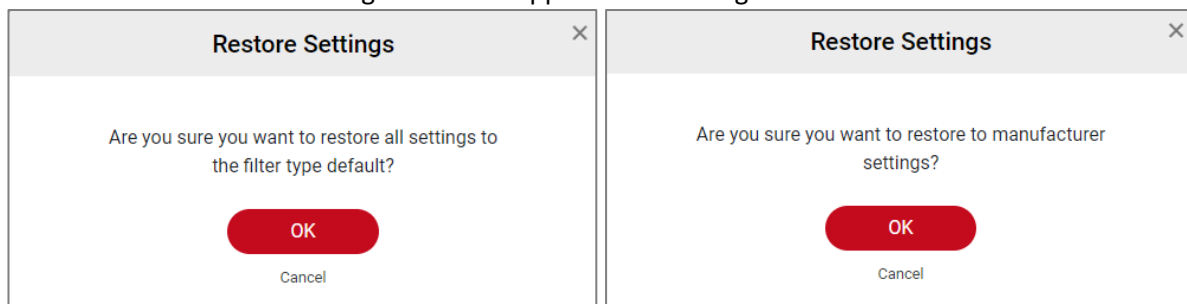
You can perform parameters restoration via **ADI-X Desktop** application, **ADI-X Mobile** application, and **ADI-BLE Mobile** application.

To restore parameters using **ADI-X Desktop** application:

1. Sign in to **ADI-X Desktop** application.
2. Go to "Sites" tab in the left menu and select the required site.
3. Go to "Settings" tab and click "Restore to Filter Type Settings" or "Restore to Factory Settings" (see options above).

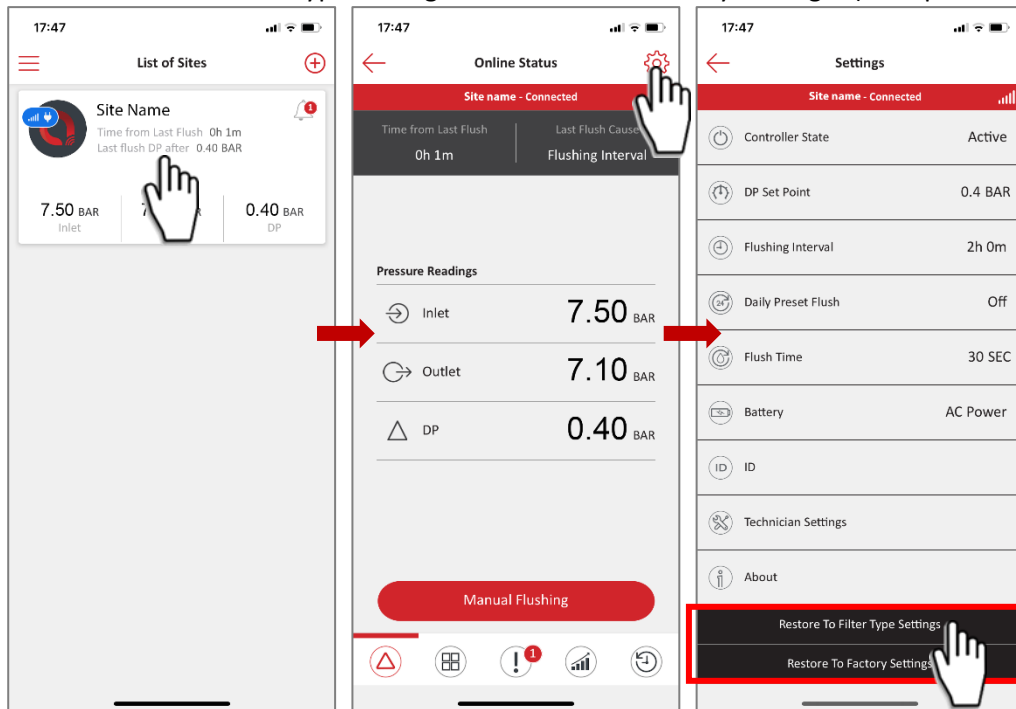


4. Click "OK" in the dialog window to approve the settings restoration.

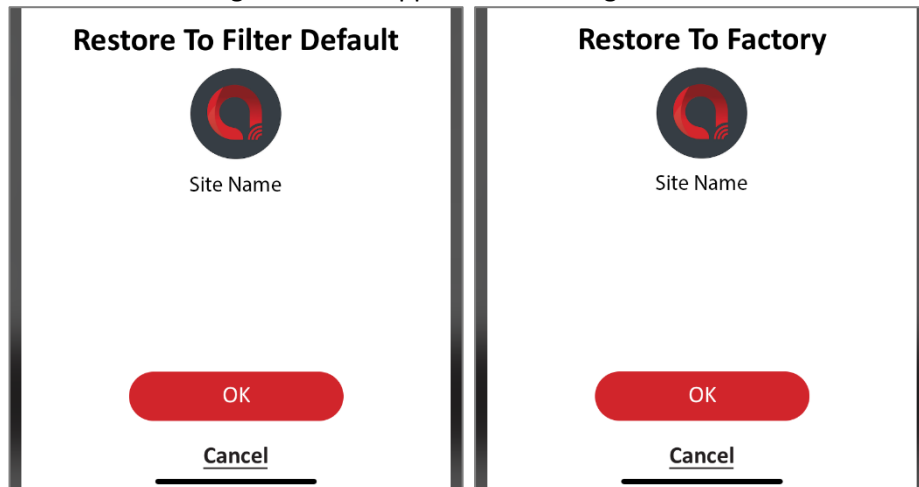


To restore parameters using **ADI-X Mobile** application:

1. Sign in to **ADI-X Mobile** Application.
2. On "Sites" screen select the required site.
3. Click "⚙️" to open "Settings" menu.
4. Click "Restore to Filter Type Settings" or "Restore to Factory Settings" (see options above).

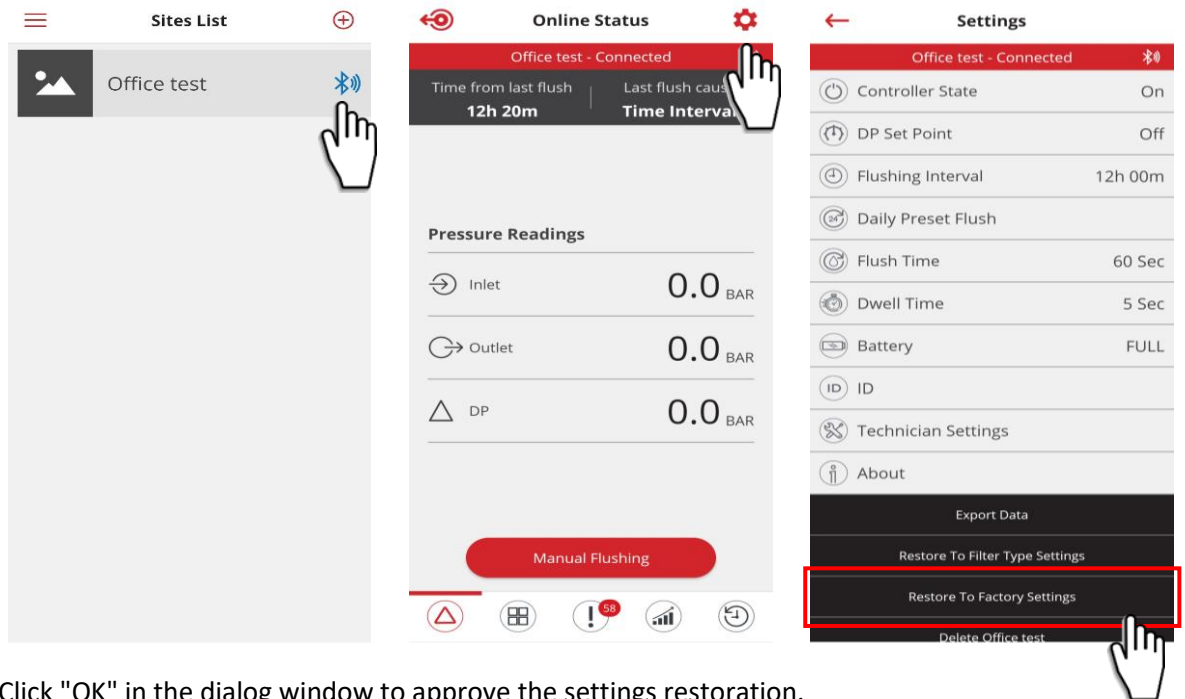


5. Click "OK" in the dialog window to approve the settings restoration.

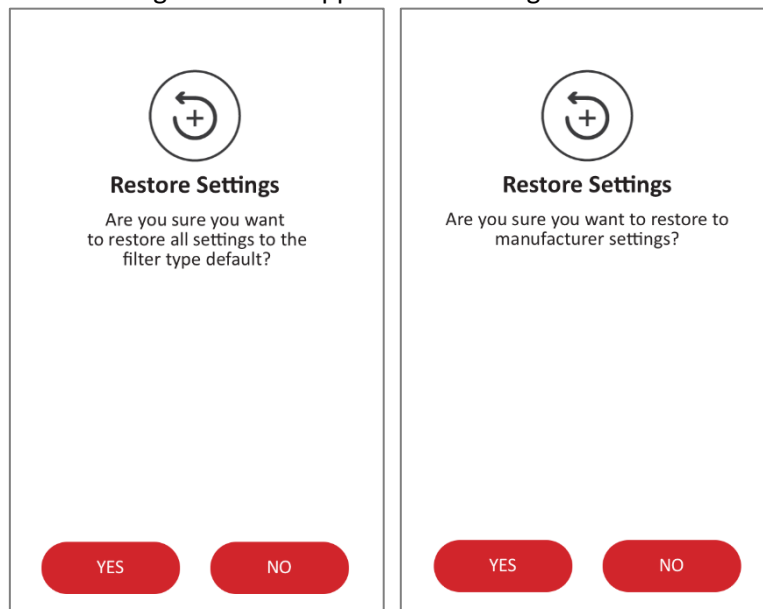


To restore parameters using **ADI-BLE Mobile** application:

1. Open **ADI-BLE Mobile** Application. Verify that the controller is within Bluetooth® range (Bluetooth® icon is blue).
2. Select the required site where you want to restore the parameters.
3. Click "⚙️" to open "Settings" menu.
4. Click "Restore to Filter Type Settings" or "Restore to Factory Settings" (see options above).



5. Click "OK" in the dialog window to approve the settings restoration.



ADI-X Controller Counters Reset

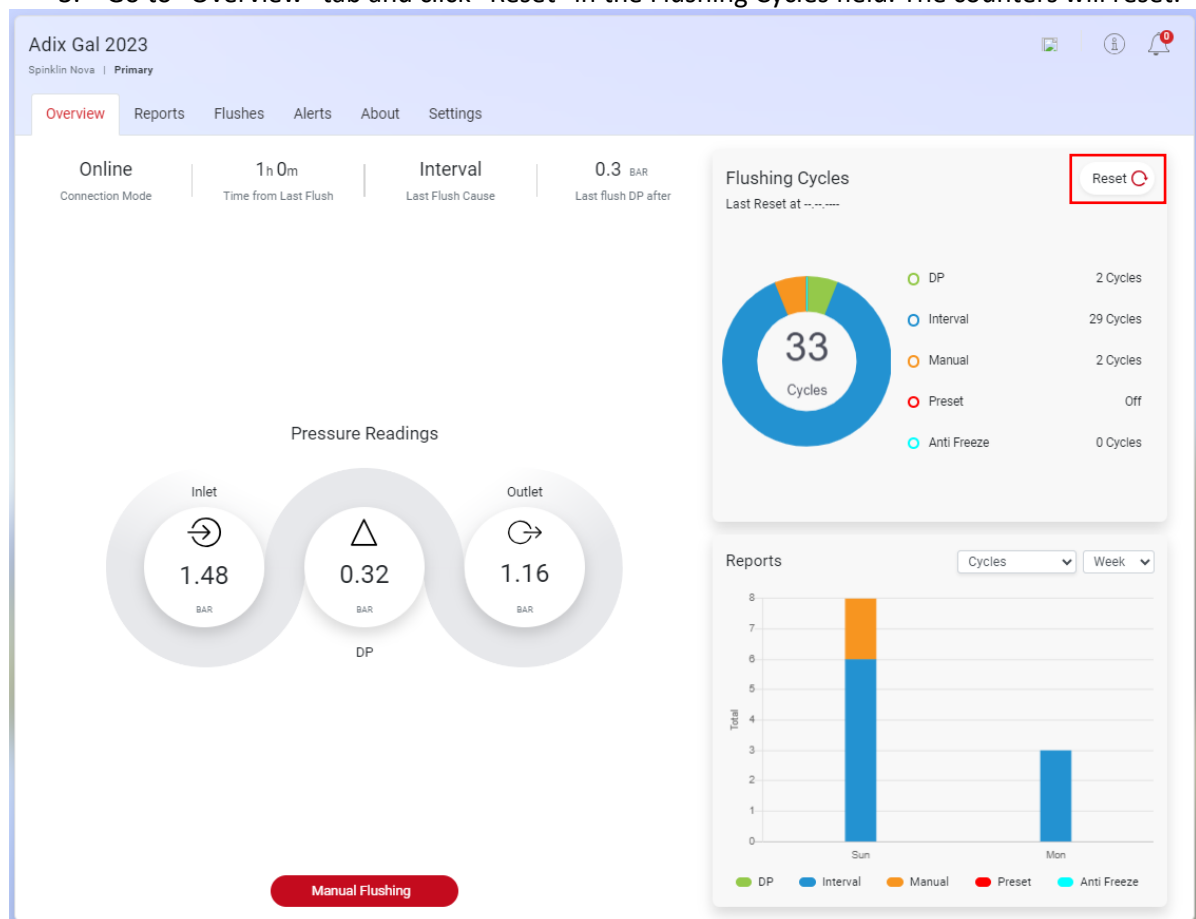
ADI-X Controller has six flushing cycles counters:

1. **Total flushing cycles:** overall number of cycles performed by the controller during operation. This number cannot be reset.
2. **DP cycles:** number of flushing cycles started due to a DP signal.
3. **Flushing Interval cycles:** number of flush cycles started due to the time intervals settings.
4. **Manual cycles:** number of flush cycles initiated manually by the user.
5. **Preset cycles:** number of flush cycles started due to the preset start times.
6. **Anti-Freeze cycles:** number of flush cycles started due to low temperatures.

Counters 2-6 can be reset via **ADI-X Desktop** application, **ADI-X Mobile** application, and **ADI-BLE Mobile** application.

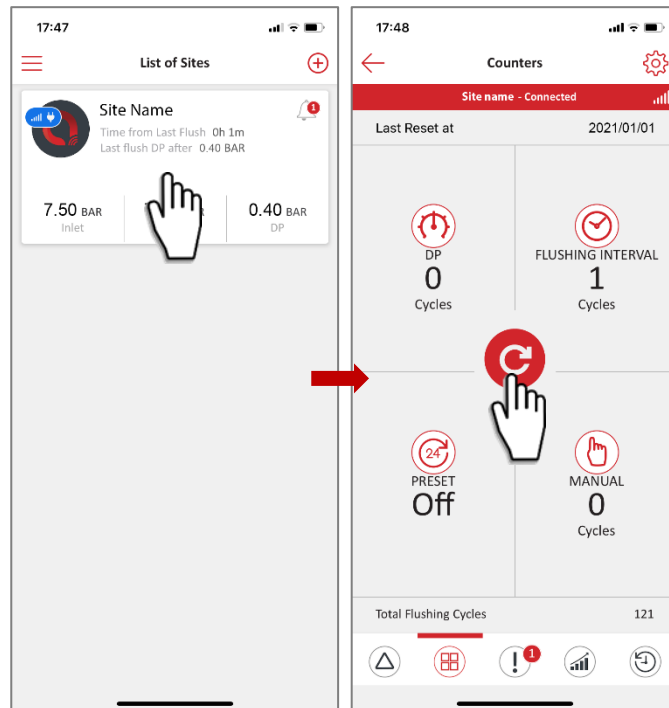
To reset the counters using **ADI-X Desktop** application:

1. Sign in to **ADI-X Desktop** application.
2. Go to "Sites" tab in left menu and select the required site.
3. Go to "Overview" tab and click "Reset" in the Flushing Cycles field. The counters will reset.



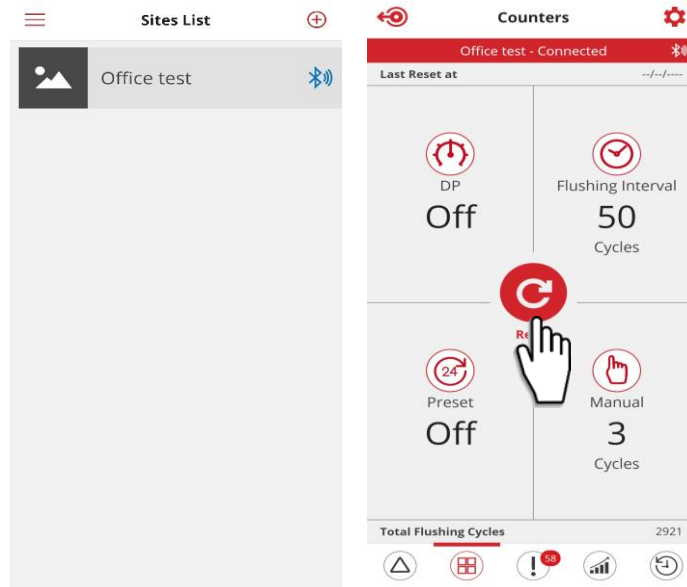
To reset the counters using **ADI-X Mobile** application:

1. Sign in to **ADI-X Mobile** Application.
2. On "Sites" screen select the site where you want to reset counters.
3. Go to "Counters" tab.
4. Click "Reset" in the middle of the screen. The counters will reset.



To reset the counters using **ADI-BLE Mobile** application:

1. Open **ADI-BLE Mobile** Application. Verify that the controller is within Bluetooth® range (Bluetooth® icon is blue).
2. Select the required site.
3. Go to "Counters" tab.
4. Click "Reset" in the middle of the screen. The counters will reset.



Manual Flushing

Manual flushing can be performed manually via **ADI-X** controller panel, or remotely via **ADI-X Desktop** application, **ADI-X Mobile** application, and **ADI-BLE Mobile** application.

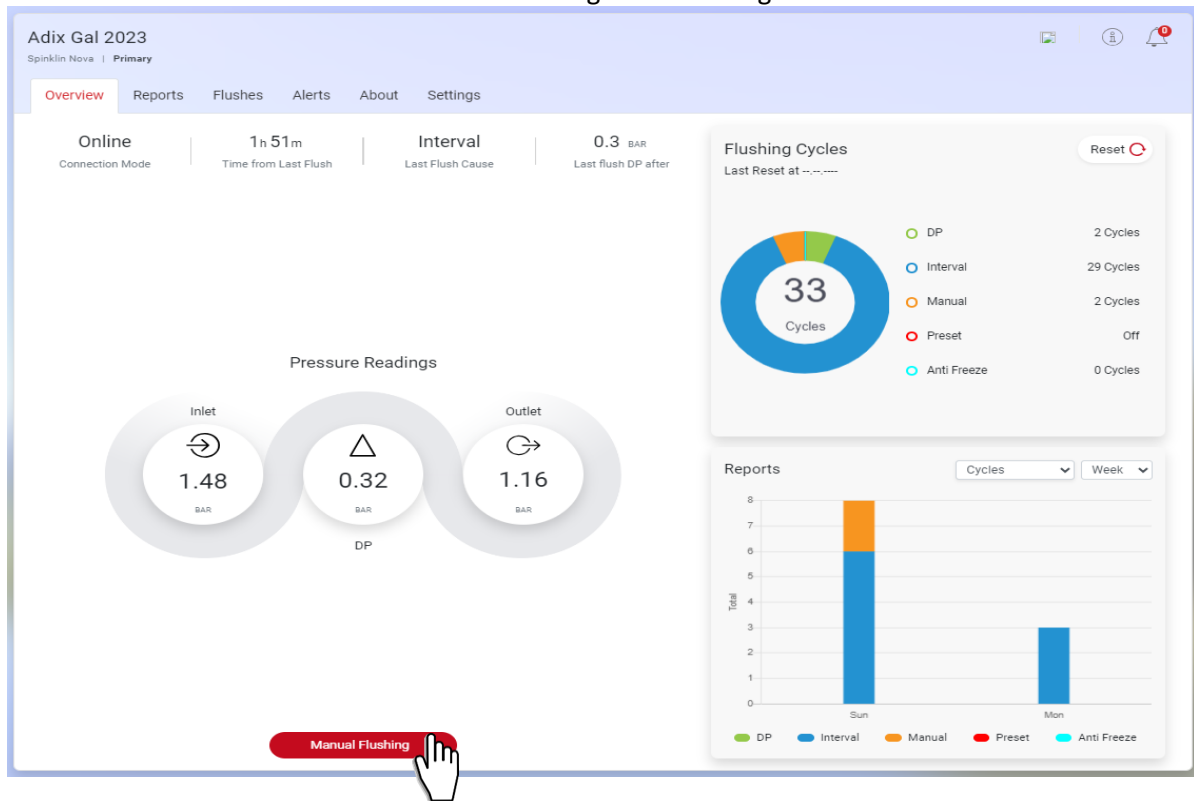
To initiate manual flushing using the ADI-X controller panel:

1. Open the **ADI-X** protection cover.
2. If needed, Press the left button to enable LED backlight.
3. Press the right button (short press). The flushing will start.



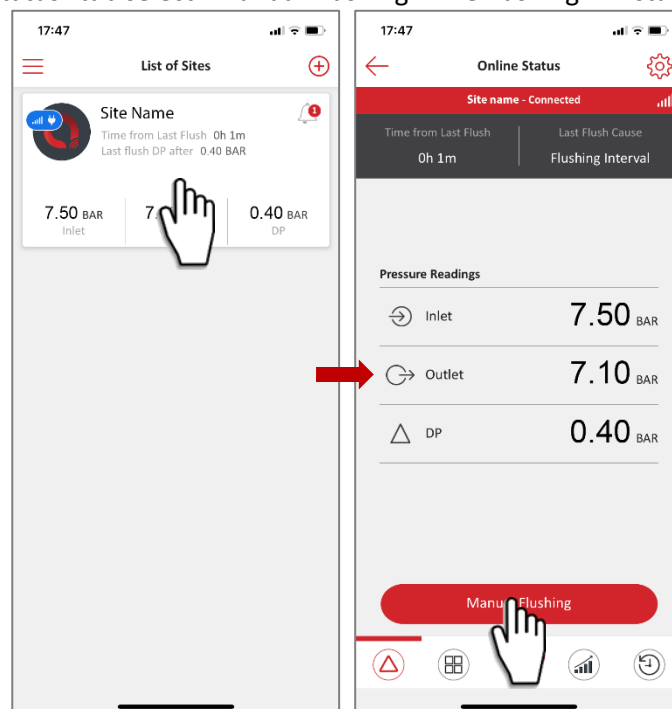
To initiate manual flushing using **ADI-X Desktop** application:

1. Sign in to **ADI-X Desktop** application.
2. Go to "Sites" tab in the left menu and select the site you want to initiate manual flushing.
3. On "Overview" tab click "Manual Flushing". The flushing will start.



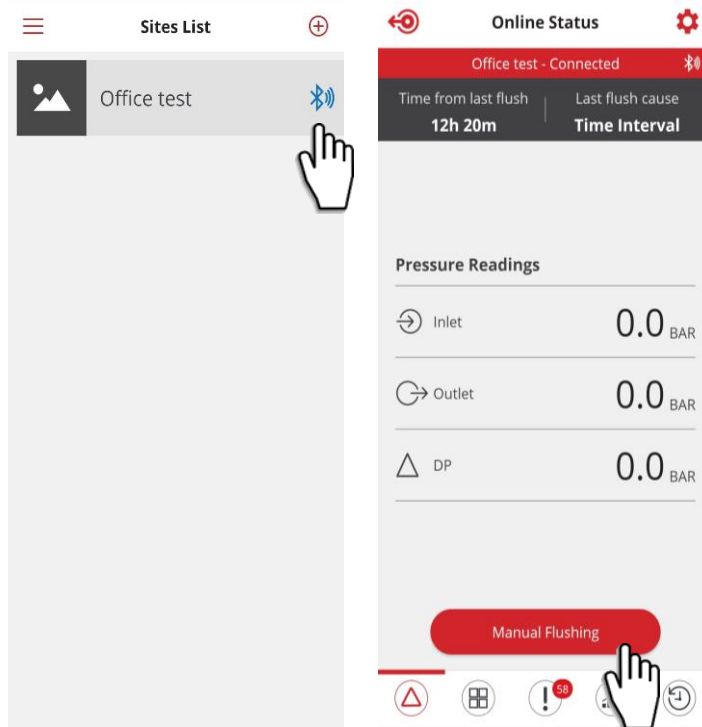
To initiate manual flushing using **ADI-X Mobile** application:

1. Sign in to **ADI-X Mobile** Application.
2. On "Sites" screen select the site you want to initiate manual flushing.
3. On "Online Status" tab select "Manual Flushing". The flushing will start.



To initiate manual flushing using **ADI-BLE Mobile** application:

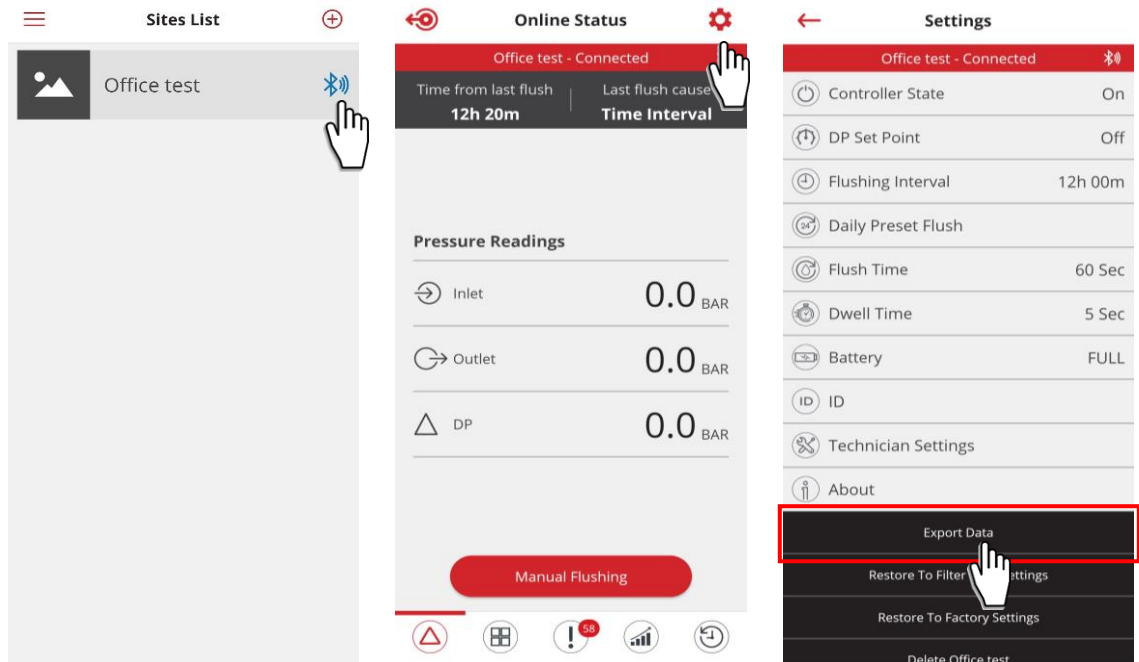
1. Open **ADI-BLE Mobile** Application. Verify the controller is within Bluetooth® range (Bluetooth® icon is blue).
2. Select the site you want to initiate manual flushing.
3. On "Online Status" tab select "Manual Flushing". The flushing will start.



Downloading Reports

Interfacing the ADI-X controller via the **ADI-BLE Mobile** application, allows logging, storing, downloading, and exporting status and operation data through the user's mobile device.

1. Sign in to **ADI-BLE Mobile** Application. Verify the controller is within Bluetooth® range (Bluetooth® icon is blue).
2. Select the site you want to download report for.
3. Click "⚙️" to open "Settings" menu. Click "Export Data".



4. **ADI-BLE Mobile** application displays the various options for sending the reports, depending on the general communication applications installed on your mobile device. Select the preferred application, the recipient, and send the reports.
5. **ADI-BLE Mobile** application sends 5 reports in CVS (Excel file format): *system-id*, *parameters-setup*, *flush-events*, *alarm-events*, and *params-setup-audit*.

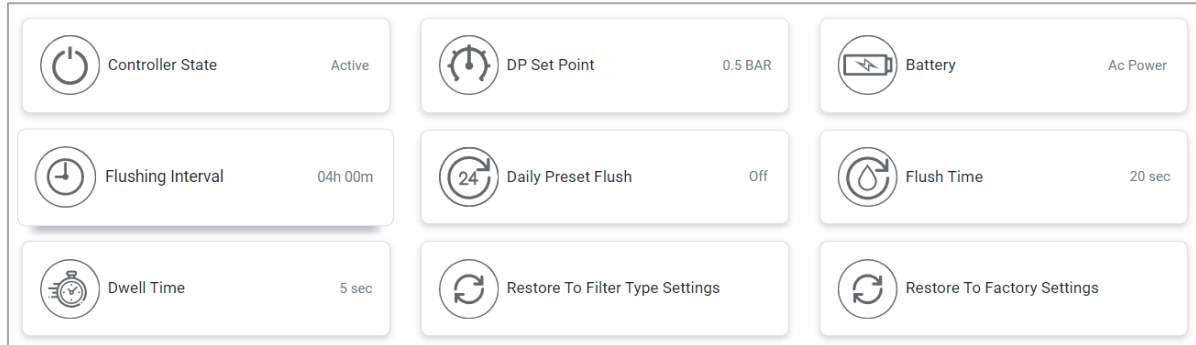
Specifications Table

| Item | Description | | Remarks |
|---------------------------------|---|---------------------|------------------------------------|
| Ideal Working Pressure | 0-10 bar | 0-150 psi | |
| Burst pressure (Peak) | 20 bar | 300 psi | |
| Power | Internal | 4x1.5V D batteries | |
| | External | 7-14 VDC | 2A external fuse, min 22 AWG wires |
| Temperature range | 0°C to (+)60°C | (+)14°F to (+)140°F | |
| Weight | 2 kg | 4.4 lb | |
| DP sensor | Internal | | |
| Internal Piston Pressure Sensor | Optimized flush time duration | | |
| IP Rating | IP65 | | |
| User Interface | Via Smartphone Application & Web desktop | | |
| Filter models | Nova, Sigma Pro, Mini Sigma, Spinklin, Filtomat, Media | | |
| Digital Inputs | External DP Switch, External Pause, Water meter main, Water meter flush | | |
| Analog Input | 2 analog inputs, 4-20mA, 0-10V | | |
| Relay output | Cycle relay output, alarm | | |
| Chain Controller Options | Onboard relay Pulse Serial Chain connection | NO | |
| Standards | FCC 47CFR part 15: 2020, subpart B, Class A ICES-003: 2017 Issue 6, Class A AS/NZS CISPAR 32 :2015 Class A EN 61326-1: 2013, basic immunity requirements, Class A IEC 61010-1 | | |

Appendix A. “ADI-X Controller Settings”

This Appendix contains the list of all ADI-X Controller settings with descriptions. The settings are available on Settings tab of the site in ADI-X applications.

The Basic Settings































| Setting | Description |
|--|--|
| Controller State | Displays the current controller state and allows the user to switch the controller on Pause or Active |
| DP Set Point | Displays the DP level for starting a flush cycle and allows the user to enable or disable the DP operation. The recommended setting is displayed at the bottom of the screen. |
| Flushing Interval | Allows the user to set the time intervals for flushing and enable or disable the flushing according to time intervals. |
| Daily Preset Flush | Allows the user to set specific flushing start times. Start time can be set as daily start times or single time start times. The user can set up to 8 start times. |
| Flush Time | Allows the user to set the duration of the flush operation. |
| Dwell Time | If the system operates two or more filters, this parameter allows the operator to set the time delay between the flush cycles of the filters. |
| Battery | Displays the current charge level of the controller's batteries. |
| ID (only in ADI-X Mobile application) | Allows the user to set the site's picture, name, and ID parameters such as: filter model, controller serial number and filter serial number. The second screen allows the user to select the type of the water source, flow rate, the working pressure, and the filtration degree of the filter. The third screen allows the user to select site location. Click "SUBMIT" to submit the data. |
| Restore to Filter Type Settings | Allows the user to reset the controller's data and restore the default parameters for the current filter type which is controlled by this controller. |
| Restore to Factory Settings | Allows the user to delete all the controller's data and restore the factory default settings; The default filter model will be according to the filter provided with the controller, or according to the customer's initial settings. |

Technician Settings

This section contains the system's basic and fundamental settings.

Notice: Do not change any of these settings if you are not fully familiar with the specific filtration system, filter type, and controller. Incorrect settings may lead to nonoperational system.

| | | |
|--|--|--|
|  Communication Method Online |  Filter Type Spinklin Nova |  Number of Filtration Units 2 |
|  Operation Mode Primary |  Interval Flush Pause Off |  Ignore DP After Flush 01m 00s |
|  DP Delay 00m 10s |  DP Sampling Interval |  High DP Alarm 0.7 BAR |
|  Repeated Flushes to Start Fault Mode 9 |  Cycle Time for Continuous 1 min |  Action to Take in Continuous Fault Mode Ignore |
|  Downstream Valve Off |  System DP Device Primary |  Downstream Valve Address Primary |
|  External DP address Primary |  Flush Sequence Standard |  Solenoid Pulse Length 80 ms |
|  Cycle Relay Output On |  Water Meter General Settings 00h 30m |  Main Water Meter Off |
|  Secondary Water Meter Off |  Analog Input |  Analog Input 1 On |
|  Analog Input 2 On |  Freezing Protection On |  LCD Display Unit BAR |
|  Sensor Role Config | | |

Access to the Technician Settings requires a 4-digit code: "1234".

| Setting | Description |
|---|--|
| Communication Method | Online or offline. When online, the controller is connected to the cloud and constantly performs synchronization, allowing real-time communication with the controller. When offline, the controller connects to the cloud once a day at a defined hour. During this connection, the controller will upload the controller history log and download pending configuration. In offline mode the controller will initiate communication in case of alert. Any changes in configuration while the controller is offline will be stored on the cloud under pending status and will be download to the controller when connected. |
| Filter Type | Select the specific filter(s) model controlled by the current controller. |
| Number of Filtration Units | Select the number of filtration units connected to the controller (1-12). |
| Operation Mode | Select the operation mode of this controller: Primary = the first controller in a chain of controllers or a stand-alone controller. Secondary = a member of a chain of controllers which is controlled by a primary controller. |
| Interval Flush Pause | When enabled, if interval flush period finished and the current DP is below Time Operation Mode Threshold, the controller will not perform flushing. |
| Ignore DP | Set the time duration after the end of a flush cycle during which the DP reading is ignored. |
| DP Delay | Set the time that the DP signal should be ON before starting flushing according to a DP signal. This parameter is used to eliminate unnecessary flushing due to a momentary high DP. |
| High DP Alarm | Set the DP level for issuing a High DP Alarm Message (System Log). |
| Repeated Flushes to Start Fault Mode | Set the number of continuous flush cycles so the ADI-BLE controller enters Fault Mode. |
| Cycle Time for Continuous | Set the cycle time for counting a flush cycle as continuous flushing. If the time between two flush cycles is shorter than "Cycle Time for Continuous" – then it is counted as continuous flushing. |
| Action to Take in Continuous Fault Mode | Select the Action to Take when Continuous Fault Mode is detected: Ignore: Ignore the alert and continue flushing according to DP Set Point. Time only: Stop flushing according to DP measurement and flush according to Time Interval only. |
| Downstream Valve Delay | Delay between downstream valve closing and start of filter flushing. |
| System DP Device | When there is a system with Primary and Secondary controllers, the user can define where the DP measurement will be performed: Primary / Secondary 1 / Secondary 2 / Secondary 3. |
| Downstream Valve Address | When there is a system with Primary and Secondary controllers, the user can define where the physical connection of downstream valve is located: Primary / Secondary 1 / Secondary 2 / Secondary 3. |
| External DP Address | When there is a system with Primary and Secondary controllers, the user can define where the physical connection of external DP is located: Primary / Secondary 1 / Secondary 2 / Secondary 3. |
| Flush Sequence | Set the flushing sequence as follows: Standard: flush order is from first to last. Reverse order: flush order is from last to first. Rotate: <ul style="list-style-type: none"> the first flush starts from 1 and finishes at the last the second starts at 2 and finishes at 1 next starts at 3 and finishes at 2 next starts at 4 and finishes at 3 and so on. |

| | |
|------------------------------|---|
| Solenoid Pulse Length | Set the Pulse Length for Solenoid in ms. Default value: 80 ms. |
| Cycle Relay Output | Set the Relay operation on End of Cycle event (Off / On). Default value: Off. Set the Relay operation time. Default value: 10 sec. |
| Alarm Relay | Set the Relay operation on Alarm event (Off / On). Default value: Off. |
| Water Meter General Settings | Water Meter inputs allow connecting external Water Meters to ADI-X, recording the values, and comparing with filter system values / events. Water Meter Interval (min) – Sampling Interval for flow record. Default value: 30 min. |
| Main Water Meter | Water Meter setting properties: Water Meter Pulse Volume (liter). Default value: 100 liters. Water Meter Role (Main Line / Flush) – Set the water meter as it is assembled on the main line or on the flush line. Unit (liter / Gallon). Default value: liter |
| Secondary Water Meter | |
| Analog Input | Analog Input allows connecting external Analog Sensor to ADI-X, recording the values, and comparing with your filter system values / events (as Pressure, Temperature, Conductivity, Turbidity, Humidity). Sampling Interval for record: Stabilization Time – The time to wait from sensor power up until measurement start. Default value: 1 sec. Analog Input Interval – Sampling Interval for Analog Input value record. Default value: 1 hour. |
| Analog Input 1 | Analog Input setting properties: Input Type (volt / mA) – Select the input type. Default value: mA Lower value (4 mA / 0 volt) – Set the lower value. Higher value (20 mA / 10 volt) – Set the higher value. Sensor Type (Pressure, Temperature, Conductivity, Turbidity, Humidity). Units (BAR/PSI, Celsius/Fahrenheit, S/m, NTU, %). Default value: BAR. |
| Analog Input 2 | |

| | |
|---------------------|--|
| Freezing Protection | <p>Freezing Protection – This function is to prevent the filter from freezing in low temperature while it is connected to water source. Default value: Enable</p> <p>Low Temperature Threshold – Temperature setpoint to start filter flushing. Default value: 4°C.</p> <p>Protecting Flushing Interval – Flushing Interval while freezing protection is activated. Default value: 60 min.</p> |
| LCD Display Unit | Allows switching units on the controller screen between bar and psi. |
| Sensor Role Config | Allows the user to utilize all three controller sensors as needed |

Important note: make sure to press SAVE after changing any of the above settings.

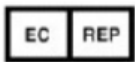
Amiad Limited Warranty

1. This certificate applies to Amiad Water Systems Ltd. ("**Amiad**") products purchased by you (the "**Buyer**") from Amiad unless specifically agreed otherwise in writing by Amiad. This Warranty extends only to the original purchaser, and is not transferable to anyone who subsequently purchases, leases, or otherwise obtains the product from the original purchaser.
2. Amiad hereby warrants that the products are and will be free from defects in material and workmanship under normal use and service. Amiad warrants that it will correct manufacturing defects in the products, in accordance with the conditions set out in this Warranty.
3. This Warranty is enforceable for a period of 12 months after the date upon which the products were delivered (the "**Warranty Period**").
4. In the event that during the Warranty Period the Buyer discovers a defect in material and/or workmanship in any product or part (the "**Defective Product**"), it shall submit a written complaint to Amiad using Amiad's standard Buyer Complaint Form. For the receipt of the Buyer Complaint Form, the submission of the complaint or any questions please contact your service representative.
5. Upon written demand by Amiad the Buyer shall return the Defective Product - or a sample thereof - to Amiad, at Amiad's cost. If the Buyer ships any such Defective Product, Amiad suggests the Buyer package it securely and insure it for value, as Amiad assumes no liability for any loss or damage occurring during shipment. Provided however that in the event Amiad determines that this Warranty does not apply to such product, Buyer shall promptly reimburse Amiad for such cost (including freight and customs). Any returned product or part must be accompanied by the Warranty certificate and the purchase invoice. It is clarified that the Buyer may not return the Defective Product unless such return was coordinated and approved by Amiad in advance.
6. Amiad's obligation under this Warranty shall be limited to, at Amiad's option, the repair or exchange, free of charge, of the product or any part which may prove defective under normal use and service during the Warranty Period. The provision of a repair or replacement of a product during the Warranty Period will result in an extension of the Warranty Period by an additional period of 12 months, provided that the total accumulated Warranty Period shall in any event be no more than 18 months from the date upon which the products were delivered.
7. This Warranty is valid on the condition that the products are installed according to Amiad's instructions as expressed in Amiad's instruction manuals and according to the technical limitations as stipulated in Amiad's literature or as stated by a representative of Amiad.
8. This Warranty will not apply to damaged or defective products resulting from or related to:
 - (i) Fire, flood, power surges or failures or any other catastrophe and/or unforeseen occurrence, such as but not limited to those for which the Buyer is customarily insured for, or any force majeure events;
 - (ii) Fault, abuse, or negligence of the Buyer;
 - (iii) Intake water not meeting the agreed standards, as set forth in a written document, approved by Amiad, or improper storage;
 - (iv) Improper or unauthorized use of the product or related parts by the Buyer, including Buyer's failure to operate the product in conformity with the recommendations and instructions of Amiad, as set forth in Amiad's manuals and other written materials, the operation of the product other than by a trained and qualified operator, or improper installation of the product by a third party not authorized by Amiad;
 - (v) Performance by the Buyer of maintenance or operation other than in conformity with the recommendations and instructions of Amiad, or other than in accordance with procedures defined in the literature supplied for products (including the timely replacement of requisite parts), and for services provided other than by a trained and qualified advanced operator; or
 - (vi) Any alteration, modification, foreign attachment to or repair of the products, other than by Amiad or its authorized technical representatives.
9. In no event shall Amiad be liable to the Buyer or any third party for any damages to property, or for any intangible or economic loss, including loss of profits, loss of customers or damage to reputation, for any damages, including indirect, special, consequential damages, or punitive damage arising out of or in connection with this Warranty, or arising out of or in connection with the product's performance or failure to perform, even if it has been advised of the possibility of such damages.
10. Amiad will be excused for failure to perform or for delay in performance hereunder if such failure or delay is due to causes beyond its reasonable control or force majeure preventing or hindering performance.
11. This Warranty set forth herein is the only contractual warranty given by Amiad and is provided in lieu of any other warranties created by any documentation, packaging or otherwise.
12. Amiad makes no warranty whatsoever in respect to accessories or parts not supplied by Amiad. In the event that Amiad is required to correct a Defective Product or product not covered by this Warranty, it will do so solely in consideration for additional fees.
13. The parties will actively endeavor to amicably settle any dispute arising between them. In the event that the parties are unable to reach an equitable settlement of such dispute, any claim or lawsuit related to the Warranty, its validity execution, its performance be brought before only the courts of Tel-Aviv, Israel. Israeli law will govern the Warranty, to the exclusion of any conflict of law rules.



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EC Declaration <https://amiad.com/list-certificates/>

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