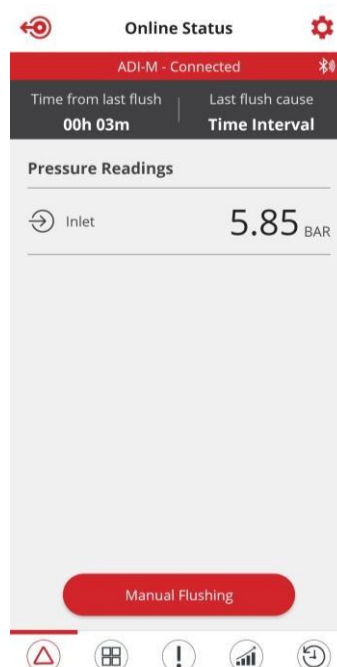


AMIAD Water Systems Ltd.

ADI-M: Smartphone Operated Controller for Automatic self-cleaning filters



Installation, Operation and Maintenance Instructions

Amiad Water Systems Ltd.

ADI-M –Smartphone Operated Controller for Maverick™ filter.

Amiad's ADI-M is a smartphone operated controller for automatic self-cleaning filter that is available as an integrated device for controlling the Maverick™ filter.

The ADI-M system consists of two major components: The ADI-M Controller and the ADI-BLE Mobile Application.

The ADI-M is based on the vast experience of Amiad with advanced controllers

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This document does not replace any certified drawing, procedure or information provided by Amiad in reference to a specific customer, site or project.

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Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel Tel: 972 4 690 9500 | Fax: 972 4 814 1159 Email: info@amiad.com

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Safety First

General Safety Instructions

- 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

- 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.

- Ensure 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.

Disposal instructions

- Proper disposal of batteries is essential to prevent environmental contamination and ensure compliance with legal requirements. Please refer to your local guidelines for specific disposal procedures.
- When your backflush controller reaches the end of its useful life, you must follow the local disposal guidelines to ensure safe and responsible disposal.

Initial operation of the ADI-M Controller:

Open the cover of the ADI-M Controller by pulling it and insert four alkaline 1.5V AA batteries or remove battery isolation slip (in case new batteries are already installed). The ADI-M Controller starts operating according to its pre-defined default flushing program.



The ADI- BLE Mobile Application

Downloading the Mobile Application:



The free **ADI-BLE** application by Amiad Water Systems is available for download on Google Play or the App Store.

Scan QR code to download the mobile app:

Google Play:

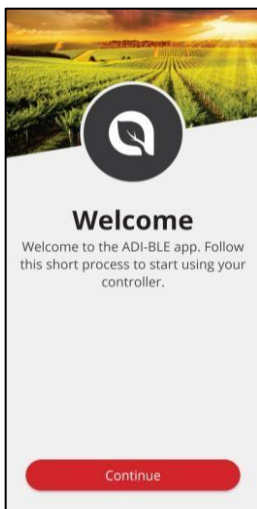


Apple Store:

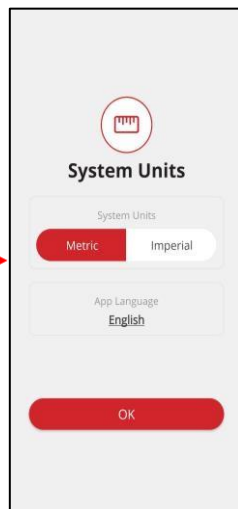


Setup and registration of the ADI-BLE mobile app:

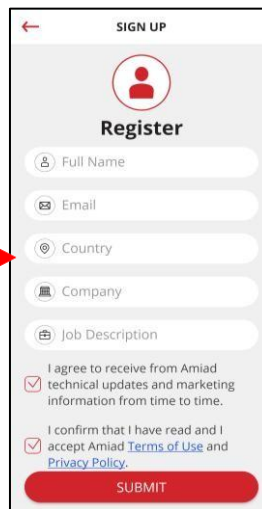
If you possess an existing ADI-X or ADI-P account, kindly utilize the same username and password rather than registering for a new one.



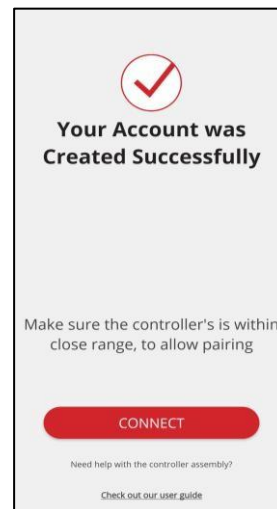
Welcome!
Click "continue".



Select System units and
click "OK".



Complete your details
and click "Submit"



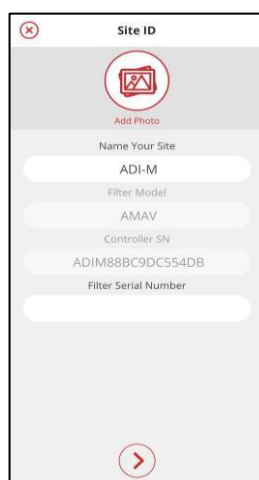
Registration is done.
Click CONNECT to
complete.



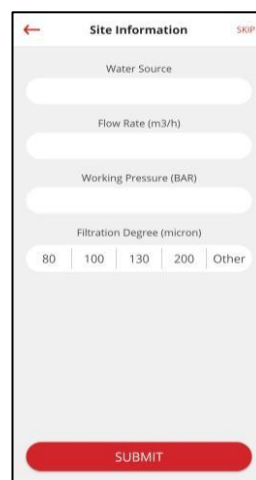
Scan for the ADI-Controller



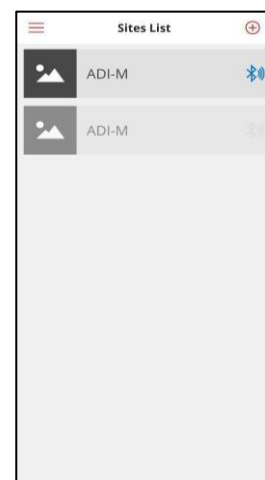
Confirm pairing , press "Yes"



Complete the SITE ID form

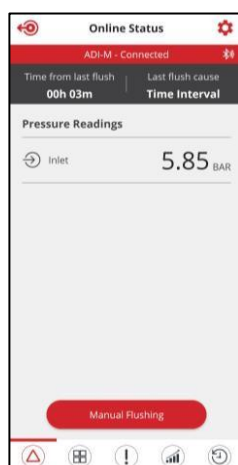


Enter the SITE INFO details (optional). Once done click SUBMIT



Select the active controller from the SITE LIST, marked by the active Bluetooth® icon.

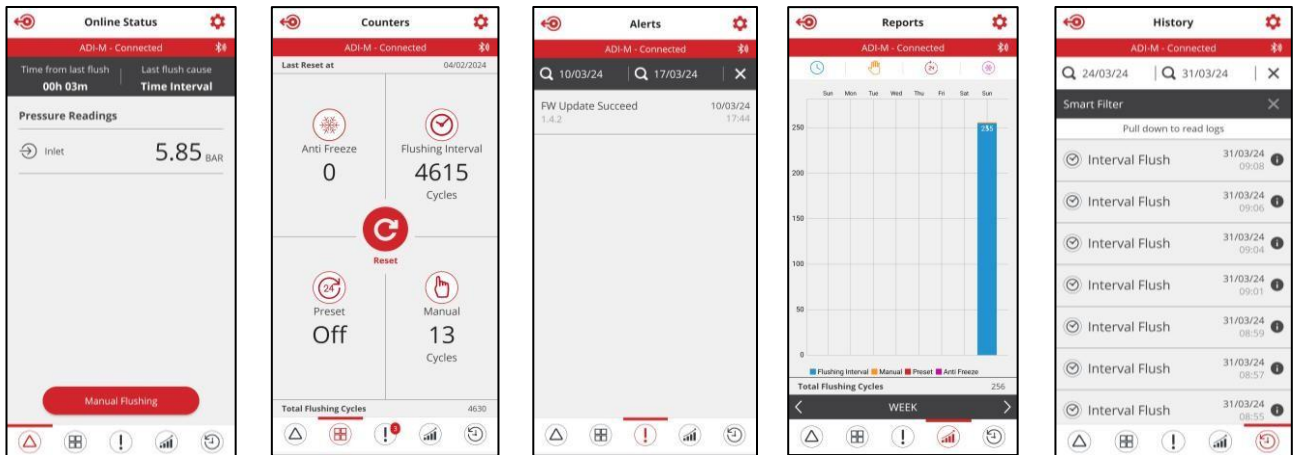
The ONLINE STATUS screen appears and relevant data regarding your filter's performance can be viewed.



Getting to know the ADI-BLE Application:

Take a few moments to familiarize yourself with the ADI-BLE mobile application interface:

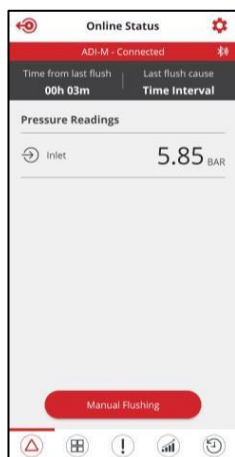
Once running and controlling the filter, the application has 5 main screens. Scroll through these screens by sliding to the right or to the left.



You may also reach the desired screen by clicking on the designated icons that appear at the bottom of the screen.

Screens Details

The Online Status screen:



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.
Manual Flushing	Press this icon to start a manual flush cycle.

The Counters screen:



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.
Anti-Freeze Cycles	The number of flush cycles started due to low temperature.
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:

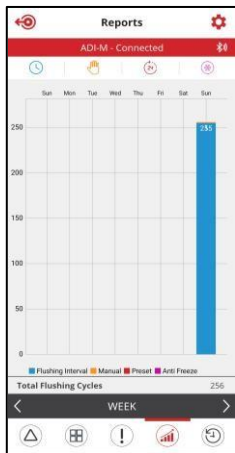


The upper red line	Displays the name of the currently connected controller and the communication status.
The second line	Enables sorting alerts between two dates and resetting an alert.
The alerts list (see below)	Display the alert messages according to their occurrence time and date.

Alarms and faults list:

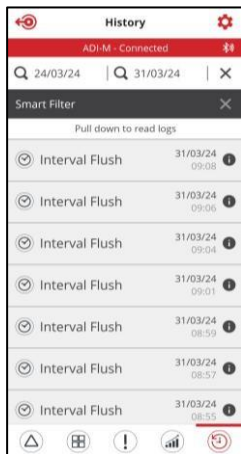
Alert	Possible cause	Recommended Action
Low battery	Low battery voltage	Replace all 4 controller batteries
Low battery pause	Controller paused due to low battery voltage	Replace all 4 controller batteries
DFU failed	Firmware update fail	Validate mobile cellular reception and try again
Out of range app connection	Controller out of range during connection session	Get closer to the controller with the smartphone (within Bluetooth® range)
Sensor pressure read failed	The sensor failed to read Inlet pressure (0)	confirm tube proper connection If continues - contact support
Capacitor charge start failed	Unable to charge capacitor	Contact support
Load capacitor timeout	Capacitor charge timeout	Check battery voltage level, contact support
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:



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).

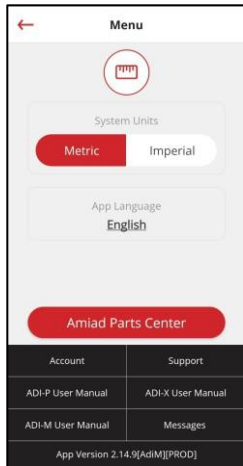
History screen:



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 (Interval, Manual, Preset, Anti Freeze).
The events list	Display the events messages according to their occurring time and date.

The Menu screens:

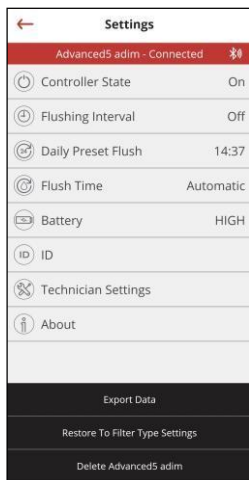
Enter the menu screens by tapping on the Menu icon in the upper left corner of the SITE LIST screen:



System Units	Select the system engineering units: Metric or Imperial.
Language	Select the application user interface language: English, Spanish, French, German, Hebrew, Italian, Portuguese, Russian, Turkish and Chinese.
Part center	A quick link for Amiad parts center website
Account	Displays the registration details of the system: User name, User e-mail, User country, User company and User job description.
Support	Contact US screen, when support is required
User Manual	This screen shows the all user manuals for three controllers.
Messages	Messages from the Amiad system
App Version	Displays the current version of the ADI-M Application.

The Settings screens:

Enter the settings screen by tapping on the 'Settings' icon in the upper right corner of any of the 5 main screens:



The upper red line	Displays the name of the currently connected controller and the communication status.
Controller State	Displays the current controller state and allows the user to switch the controller ON and OFF
Flushing Interval	Allows the user to set the time intervals for flushing and enable or disable the flushing according to time intervals. The recommended setting is displayed at the bottom of the screen.
Daily Preset Flush	Allows the user to set specific flushing start times. Start time can be set as several days a week with or without repetitions.
Flush Time	Allows the user to set the duration of the flush operation. The recommended setting is displayed at the bottom of the screen. Can be manual setting or automatic setting per the inlet pressure
Battery	Displays the current capacity level of the controller's batteries.
ID	Enables the user to set the site's picture, name and ID parameters such as: controller's serial number and filter serial number. The second screen allows the user to select the type of water source, flow-rate, the working pressure and the filtration degree of the filter. Press SUBMIT to submit the data.
Technician Settings	See the following table.
About	Displays the current device ID, App version, Firmware version, Hardware version, Bootloader version, controller installation date. If updated firmware is available this screen prompts the user to update the system by pressing the Update Now button.

Technician Settings section:

This section of the application contains the system's basic and fundamental settings. Do not change any of these settings if you are not totally familiar with the specific filtration system, filters and controller. Incorrect settings may cause the system to become non-operational.

Access to the Technician Settings screens requires a password: 1234.



Freezing Protection	Freezing Protection - This function is to prevent the filter to freeze in low temperature while it connected to water source. Default: Enable
Low Temperature Threshold	Freezing Protection - Temperature setpoint to start filter flushing. Default: 4°C
Protecting Flushing Interval	Freezing Protection - Flushing Interval while freezing protection is activated. Default: 60 min

Important note: make sure to click on the V icon after changing any of the above technician settings.

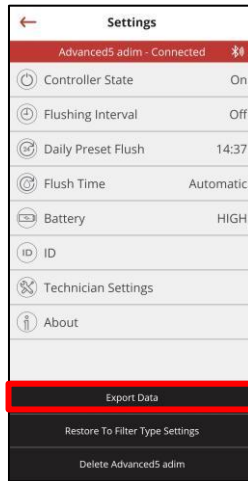
Additional Settings screens:

Export Data	This screen allows the user to export the controller's data (as an Excel file).
Restore to Filter Type Settings	Allows the user to reset the controller's data and restore the default parameters.
Delete ADI-M	Allows the user to delete a site from the smartphone.

Download and Export Reports –

In addition to the on-screen reports, the ADI-M is capable of logging, storing, downloading, and exporting status and operation data through the user's smartphone.

1. Enter the "Export Data" section of the Settings Screen; To make sure that the system exports the latest data, refresh the screen (slide your finger along the screen from top to bottom).



2. Depending on the general communication applications installed on your smartphone, the ADI-BLE application displays the various options for sending reports.
 3. Select the preferred application, the recipient and send the reports.
 4. ADI-M sends 5 reports in CVS file format (Excel): *system-id*, *parameters-setup*, *flush-events*, *alarm-events* and *params-setup-audit*.
- For further assistance, please contact us at ADI-M@amiad.com

Additional features :

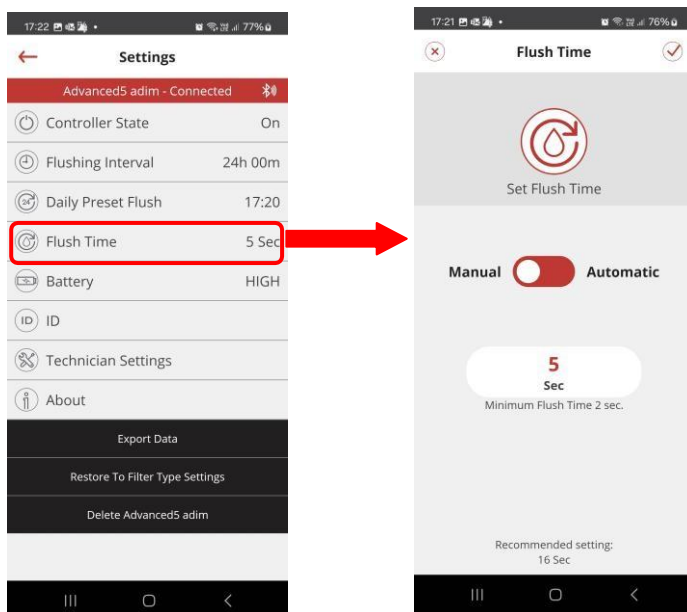
Initiating Flushing Duration

In the ADI-M controller, you have the option to control the flushing process. There are two modes available: Automatic and Manual.

1. **Automatic Mode:** The flushing duration is determined based on the inlet pressure- **Default recommended.**
2. **Manual Mode:** You can configure the flushing duration according to your preference.

Steps to Set the Flushing Duration:

1. Open the ADI-Ble App and locate your controller.
2. Navigate to the **Settings** menu.
3. Select **Flush Time**.
4. Choose between **Manual** or **Automatic** mode.
5. If you select **Manual**, adjust the flushing duration to your desired setting.

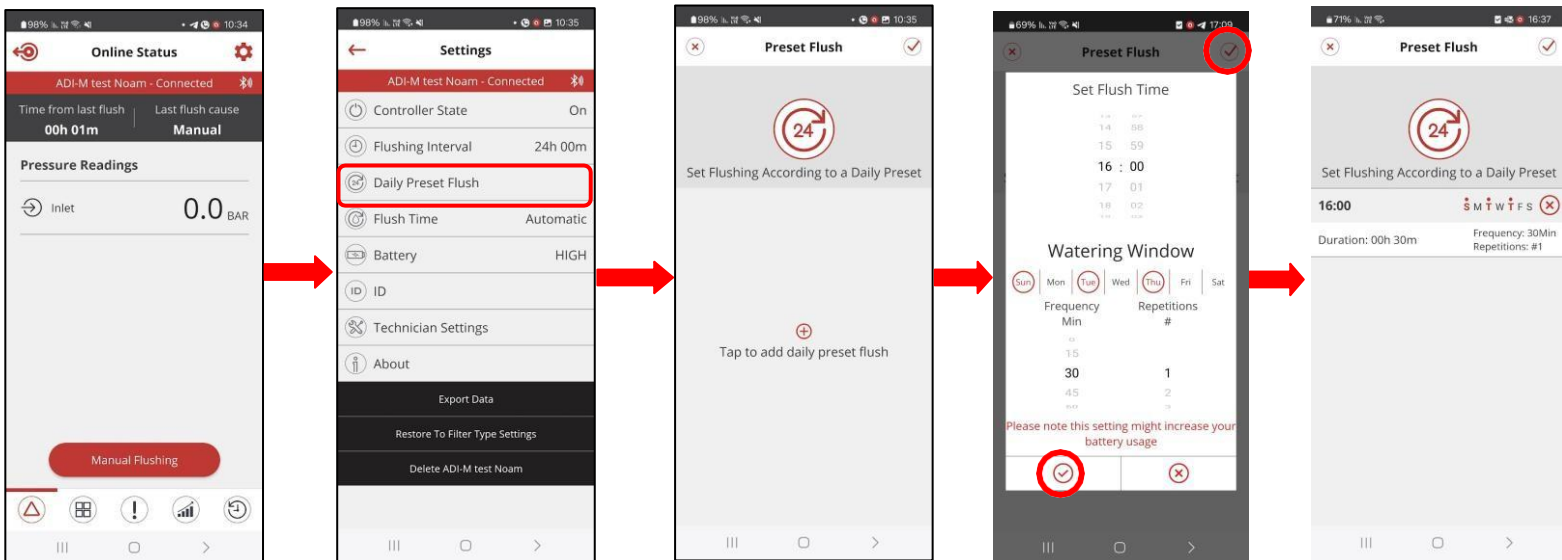


'Watering window'

The watering window feature enables you to set your watering window and days you would like. This functionality offers greater flexibility and enhanced control over your filtration system.

Steps to set the 'Watering Window':

1. **Open** the ADI-Ble App and locate your controller.
2. Navigate to the **Settings** menu.
3. **Select** Daily Preset Flush
4. **Tap** the + button to start configuring your preference
5. **Set** your time and days you would like to
6. **Save** your changes by clicking twice on the ✓



Troubleshooting ADI-M

Controller/Hardware issues

Problem	Cause	Check	Recommended action
The controller fails to initiate flushing.	Empty or low battery.	Examine the battery status.	Replace batteries.
Valve Issues (Open/Close Problems).	Faulty flushing valve.	Examine the valve for faults.	Service the valve or replace if needed
Controller does not work at all.	Improper battery insertion or connection	Verify battery placement and connections. Check battery orientation	Reinsert battery correctly. Ensure secure connections.
	Battery damage or age	Inspect battery for damage or age.	Replace damaged/old battery with a compatible one. High quality or industrial grade battery. Our recommendation is to replace the batteries once a year
Firmware Update Failed.	The latest Firmware version has not been downloaded to the mobile device	Check in the 'About' section that the last firmware version has been downloaded	In the ADI-BLE, go to Settings >> About >> check 'Last FOTA Downloaded' date.
	Bluetooth interruption.	Verify Bluetooth connection. Ensure mobile device is close to the controller (few meters) and not disturbed.	Retry firmware update while ensuring constant Bluetooth connection.

Mobile application / User interface issues

Problem	Cause	Check	Recommended action
Connection Issues.	Bluetooth disabled. Bluetooth out of range.	Ensure Bluetooth range. Move closer to the controller to establish a Bluetooth connection	Enable Bluetooth on mobile device. Restart device - reinsert one battery.
	Mobile app Malfunction.	Reset mobile app.	Exit and enter the mobile app. Reinstall app - unload and redownload the mobile app.
	Another user is connected to this controller.	Check that no one else is connected to the controller.	Reset device (disconnect power/re insert batteries) or disconnect other. User.
	Outdated mobile device operating system.		Update mobile device operating system version.
I cannot see history in mobile App	Known issues in older versions	Check for the latest ADI-BLE version on Apple store/Google store. Check for FW version to be 1.4.6 or newer	Update controller's firmware if required

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 AA batteries	
Temperature range	5°C to 60°C	41°F to 140°F	Aligned to the filter temperature range
Pressure sensor	Internal		
IP Rating	IP68		
User Interface	Via Smartphone Application		Android and iOS
Filter models	Maverick™		
Standards	FCC 47CFR part 15: 2017, subpart B, Class B ICES-003: 2016 Issue 6, Class b AS/NZS CISPAR 32 :2015 Class B EN 61326-1: 2013, basic immunity requirements, Class B JEC 61010-1		

FCC Radio frequency interference statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving ADI-M controller or mobile device running the ADI-BLE App.
- ☐ Increase the separation between the equipment and receiver.
- ☐ Consult the dealer or an experienced radio/TV technician for help.

Amiad Water Systems is not responsible for any radio or communication interference caused by using other than specified or recommended battery or by unauthorized changes or modifications to this equipment. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation. "

The FCCID for the ADI-M is **2BOTL-ADI-M**

Amiad Limited Warranty

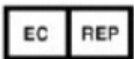
1. This certificate applies to Amiad Water Systems Ltd. ("**Amiad**") products purchased by you (the "**Buyer**") from Amiad unless specifically agreed otherwise in writing by Amiad. This Warranty extends only to the original purchaser, and is not transferable to anyone who subsequently purchases, leases, 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.



Manufacturer

Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel.
Tel: +972 4690 9500 | Fax: +972 48141159 | Email: info@amiad.com



European Authorised Representative for CE

Obelis s.a. Bd Général Wahis 53, 1030 Brussels, Belgium.
Tel: +(32) 2732 5954 | Fax: +(32) 27326003 | Email: mail@obelis.net

EU Declaration of Conformity

<https://www.amiad.com/certificatesDownload.asp>