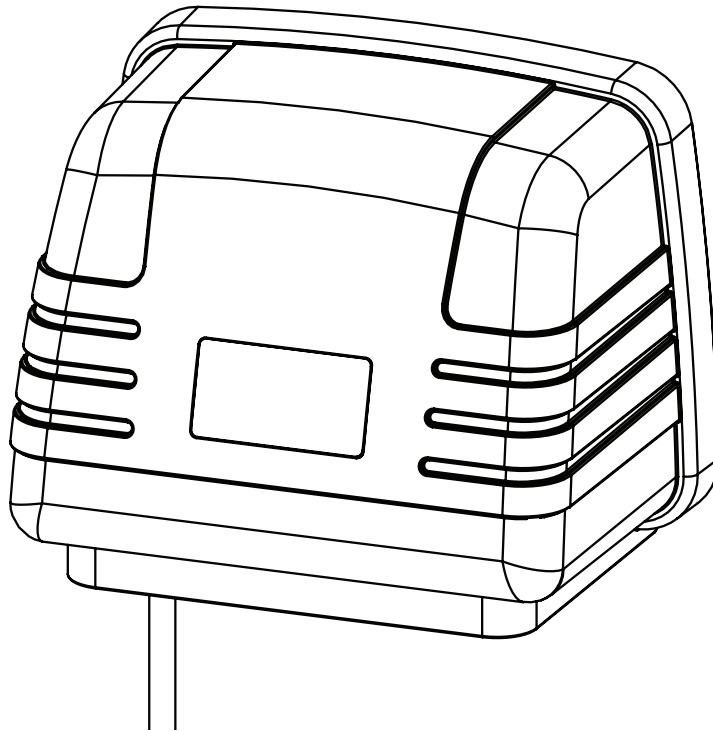


INSTALLATION MANUAL



HALO[®] XPAND[™] AUTOMATION EXPANSION MODULE

WARNING

FOR YOUR SAFETY - This product must be installed in accordance with AS/NZ 3000 - 2018 and any other local applicable regulations. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.

Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.



For full warranty terms and conditions and to register your warranty, visit www.astralpool.com.au/warranty and complete your details. Or scan the QR code to go directly to the registration page

Record your equipment details here for quick reference:

Model No. : _____

Serial No. : _____

EQUIPMENT INFORMATION RECORD

DATE OF INSTALLATION _____

INSTALLER INFORMATION _____

LIGHTING CONTROLLER MODEL _____

SERIAL NUMBER _____

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Section 1. Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

WARNING

The HALO Xpand has an IP23 rating, meaning it is suitable for installation outdoors. For safe operation the Halo Xpand must be installed in the correct orientation, with the cables leaving from the bottom of the device. If installing the Halo Xpand near the pool or spa water, you must ensure that the rules of AS3136 are followed at all times. AstralPool strongly recommends that installation be performed by a registered pool builder, electrician or other suitably qualified person.

WARNING

Risk of electric shock - Install the controller at least 3.5 metres from the inside wall of the pool and/or spa using non-metallic plumbing.

WARNING

If the supply cord is damaged, it must only be replaced by AstralPool, its service agent or a similarly qualified person, in order to avoid a hazard.



SAVE THESE INSTRUCTIONS

Section 2. System Overview

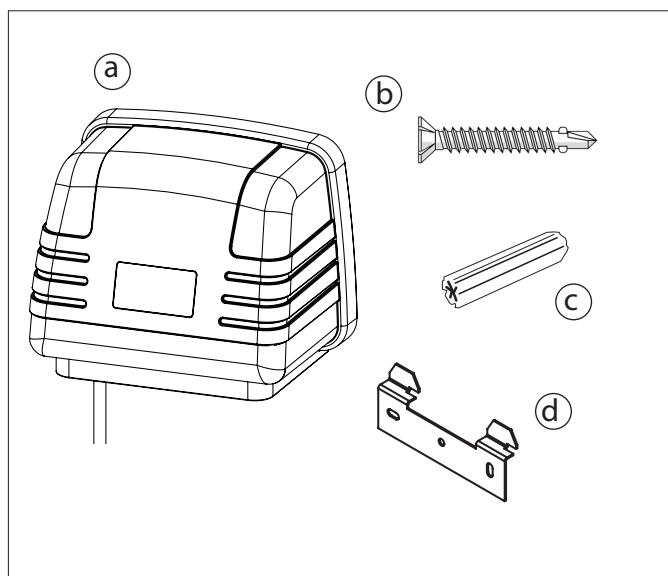
The Halo Xpand is designed to work in conjunction with a Halo Chlorinator and can be controlled through the Halo Chlorinators main Touchscreen or through the Halo Chlorinator App.

Up to two Halo Xpand's can be paired to a Halo Chlorinator.

The Halo Xpand is not designed to work in a "stand alone" mode and cannot be controlled unless it is paired to a Halo Chlorinator.

Kit Contents

Before starting, check that you have the correct parts as shown in Figure 1. If any parts are missing or incorrect, please call your local distributor or technical support at 1300 186 875 for assistance.



Halo Xpand kit contents

- a. Halo Xpand controller
- b. Screws 8G 3/4 (2)
- c. Masonry plug 8G 25mm (2)
- d. Mounting bracket

Figure 1. Kit Contents

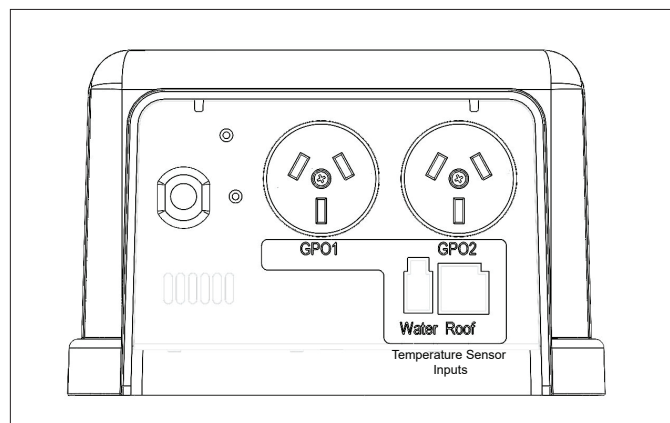


Figure 2. Base View

Section 3. Installation

3.1 Mounting

The Halo Xpand must be mounted to a wall using the steel mounting bracket supplied. Figure 3 shows the position of the mounting bracket, relative to the top and base of the product, which will aid in setting out the equipment area and aligning with other Halo products.

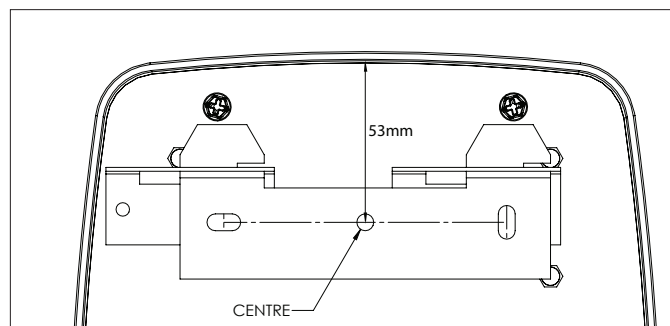


Figure 3. Power Supply Keyhole Mounting (back)

1. Identify a suitable installation location.

NOTE: The distance between the Halo Xpand and the Halo Chlorinator should be less than 5 meters and ideally should be "line of site" for a reliable connection.

If the Chlorinator is housed in an equipment enclosure, then ideally the Halo Xpand should also be located in the same enclosure.

If in doubt, test the signal strength using a mains power extension cord to pair the Halo Xpand to the Halo Chlorinator before mounting the Halo Xpand.

2. Insert the two mounting screws into the wall bracket. 85mm apart. Use the two plastic masonry plugs (provided) if mounting into masonry.

3. Hang the Xpand on the mounting bracket through the slots. Ensure the Xpand drops down into place. Slide to the right to lock in position.

3.2 Power Connections

Halo Xpand's are provided with a 2.8Mtr power cable for connection to a mains outlet.

As shown in Figure 2, the Halo Xpand has 2 Mains Power Outlets (Outlet 1 and Outlet 2).

The following table indicates the maximum permitted current draw from each outlet.

	Mains GPO Type	Max Current (Outlet 1)	Max Current (Outlet 2)	Max Total (Outlet 1 + 2)
20381 Halo Xpand	10A	9.5A	9.5A	9.5A

3.3 Other Connections

The Halo Xpand also has two temperature sensor connectors (as shown in Figure 2). This is in addition to the temperature sensor connector on connected Halo Chlorinator.

The use of the Halo Xpand connections varies depending on the type of equipment connected. If your setup doesn't require a temperature sensor (e.g. Garden Lights), then these connections are ignored.

The following Table shows typical uses for the two temperature sensors on the Halo Xpand.

NOTE: The Halo Xpand does not support the use of the Filter Pump for solar control.

Application	Purpose	Temp Sensor 1	Temp Sensor 2
Solar Control	Separate solar pump used for Solar	Water Temperature	Roof Temperature
Heater Control (through GPO)	Main filter pump used for Heater	N/A - use Halo Chlorinator water temperature sensor	N/A
Heater Control (through GPO)	Separate filter pump used for Heater	Water Temperature	N/A

Section 4. Pairing and Configuring Halo Xpands

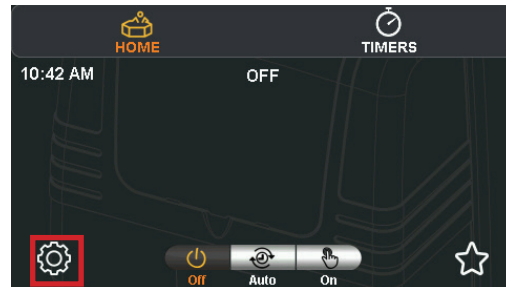
Setting up Halo Equipment is a two-part process. If you have more than one Xpand, first pair all of the devices and then configure the equipment that will be connected.

NOTE: Icons in the Chlorinator App (bottom ribbon of the app screen and top bottom ribbon on the chlorinator screen.) vary between depending on what equipment is installed.

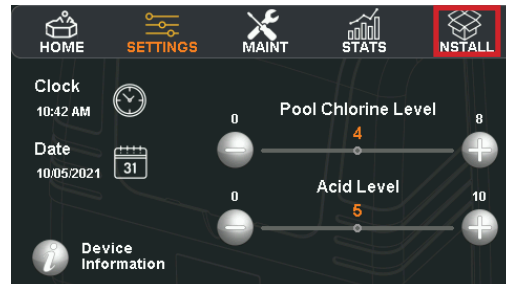
4.1 Pairing to the Halo Chlorinator

To pair a Halo Xpand to a Halo Chlorinator:

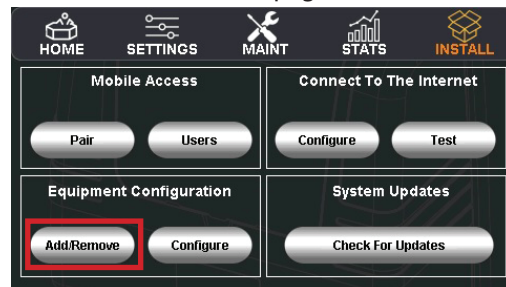
1. Press the "settings" icon (in the lower left corner) on the "HOME" page on the Chlorinator.



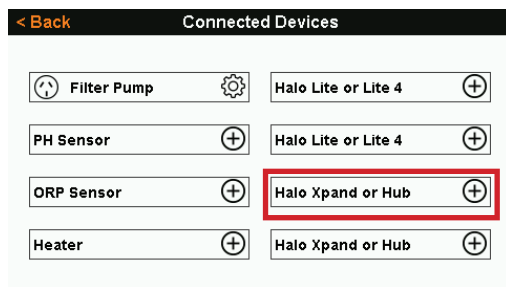
2. Press the "INSTALL" Icon in the top ribbon of the "Settings" page of the Chlorinator.



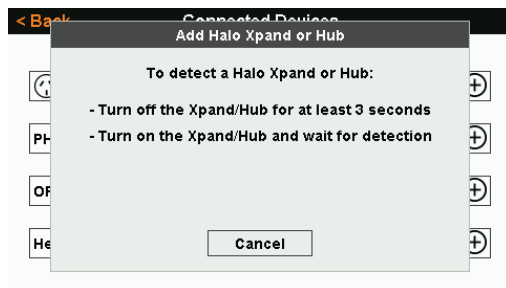
3. Press "Add Remove" in the "Equipment Configuration" area on the Install page. (Lower left corner).



The list of "Connected Devices" shows devices that can be connected to the Halo Chlorinator. These are shown with the  symbol to the right of the device name. In this case, press the  symbol on the Halo Xpand Icon.



Follow the prompts, turn off the power to the Halo Xpand for 3 seconds™, then turn it back on.

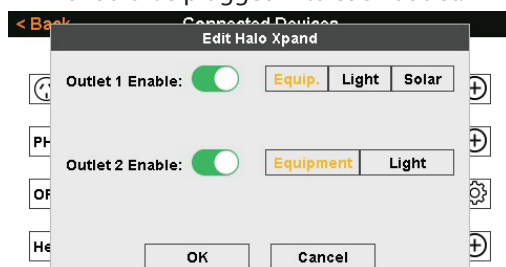


If the signal strength is strong enough pairing will be automatic. After pairing, the signal strength is shown as a bar graph in the connected devices view: A signal of 2 "bars" or better is desirable for robust connections. If the signal displays 1 bar, consider moving the device closer to the Halo Chlorinator.

- Define what equipment you want to assign to each one of two GPO's. Press the button of the Halo device that you have just installed and press "Edit".



- On the next screen, enable or disable each GPO (Outlet 1 and Outlet 2) and define which equipment should be plugged into each outlet.

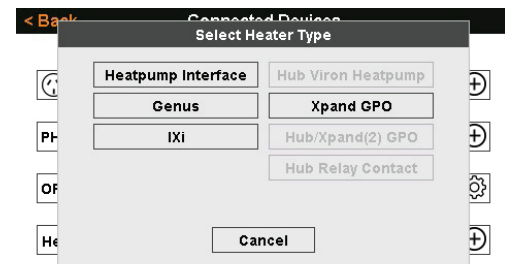


NOTE: Solar pumps must use Outlet 1

NOTE: Heater unit must use Outlet 1.

To configure the Heater unit;

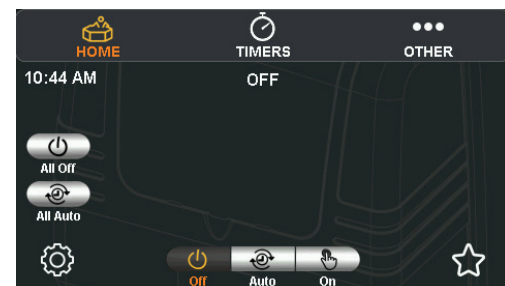
- Return to the Connected Devices screen in 4.1.3.
- Select the Heater option. The Xpand GPO option will not be available.



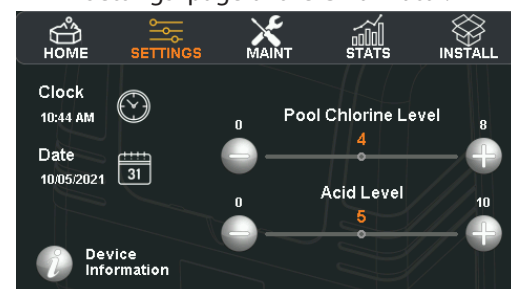
4.2 Configuration and Setup

After pairing all of your Halo devices, they must be configured.

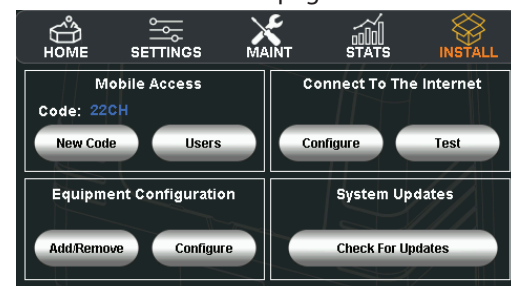
- Press the "settings" icon on the "HOME" page of the Chlorinator.



- Press the "INSTALL" Icon in the top ribbon of the "Settings" page of the Chlorinator.

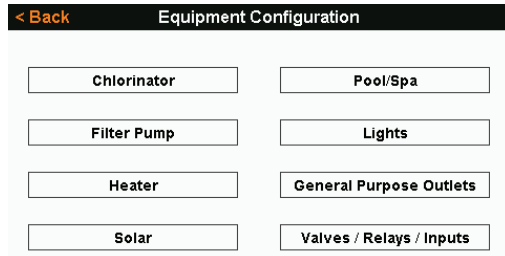


- Press "Configure" in the "Equipment Configuration" area on the Install page.



The list that is generated is used to describe how you wish to use the equipment. For example:

- If you are configuring a Heater, do you wish to use the Filter pump or a separate Heater pump for that heater?
- If you are installing Lights, what brand of lights are they, do you want to use timers to control them?



4.3 Unpairing from a Halo Chlorinator

Connected Devices are shown in the “Connected Devices” list (Section 4.1) and have a “settings” Icon on the RHS of the button.



Press the button of such a connected device to display a window that allows you to Delete, Edit, or Replace the connected device.

If you no longer require a device in the system, use the “Delete” button to delete it.

If you wish to replace a connected device with a newer one, use the “Replace” button. If “Replace” is selected then the settings of the old device will be used for the new device. If you Delete a device and then choose to reinstall it, you will need to configure the new device.



Section 5. Control using the Halo Chlorinator

5.1 Manual Control

All of the functions of the Halo Xpand can be controlled using the icons in the Top Ribbon of the Halo Chlorinator display. (Icons will only appear in the top ribbon if appropriate devices have been configured.)

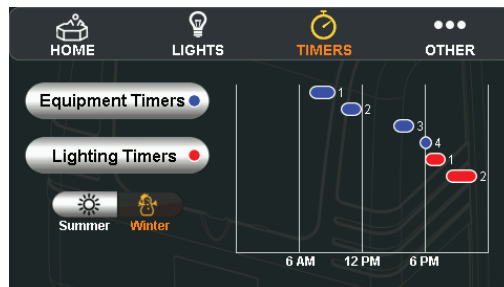
Press the icons, Lights, Heater, Solar etc., to control these devices manually.

Other functions such as Cleaning Pumps, Blowers etc can be controlled using the “Others” icon in the top ribbon of the display.

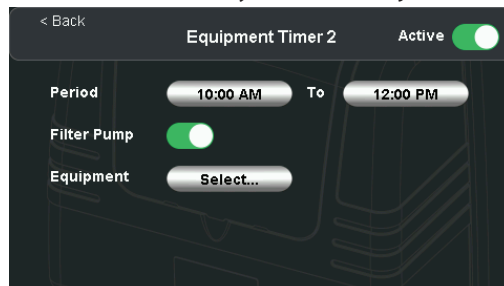
5.2 Timer Control

Timer control is accessed by pressing the TIMERS icon in the Top Ribbon of the Halo Chlorinator display.

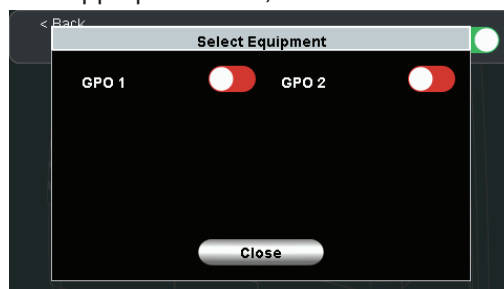
There are two groups of timers available: Equipment and Lighting. The duration of each timer is shown graphically on the right hand side of the screen



1. Press the “Equipment” or “Lighting” Timers button to display the available timers.
2. Press the timer you wish to adjust.



3. When the timer is opened up you can adjust the time period, select other equipment to control etc by pressing on the appropriate button (or sliding the appropriate slider).



NOTE: Refer to the Halo Chlorinator manual for more detailed information.

Section 6. Control with the Chlorinator Halo GO App

Manual and Timer control using the **Halo Chlorinator** App is identical to controlling these functions through the Halo Chlorinator (although Icon images may vary) See section 5, above.

The Halo Xpand is controlled through the Halo ChlorGo App. The App can be loaded onto multiple mobile devices, however you can only pair one device at a time. You will need to re-pair if changing devices.

Follow the instructions located in the Halo Chlorinator manual to install and control.



Section 7. Regular Maintenance

The controller is vented to allow the electronics to cool during extreme warm temperatures. During cooler months, ants and other insects can be attracted to the warm, dry environment inside the enclosure.

1. Turn mains power OFF.
2. Spray a surface insecticide on the surfaces surrounding the controller.
3. Repeat every three months or as necessary.

Section 8. Troubleshooting

PROBLEM	SOLUTION
If a GPO isn't working, it could be disabled.	Navigate to settings>equipment. Configure add/remove>select device>edit> toggle the outlet on.

NOTES

NOTES



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