



Astral Pool Connect LITE+ Controller

INSTALLATION AND OPERATING INSTRUCTIONS



INST419

WARNING: The transformer is not intended for series/parallel connection.

WARNING: Never connect more than one light to a single power supply outlet. Each outlet on the power supply must go to one - and one only – underwater light.

WARNING: This device must only be connected to a 15Amp Outlet.

WARNING: Never Exceed 14.5A combined total current draw from the two 240VAC GPO's

The Connect LITE+ power supply has an IP23 rating, meaning it is suitable for installation outdoors. For safe operation, the power supply must be installed in the correct orientation, with the cables leaving from the bottom of the device. If installing the power supply near the pool or spa water, you must ensure that the rules of AS3000 are followed at all times. AstralPool strongly recommends that installation be performed by a registered pool builder, electrician or other suitably qualified person.

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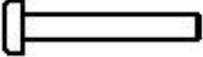
1.0 Introduction

Congratulations on your purchase of the Connect LITE+.

The purpose of the Connect LITE+ Controller is to allow you to control your pool equipment using inbuilt timers or manually using the 4-line display or hand held Remote Control.

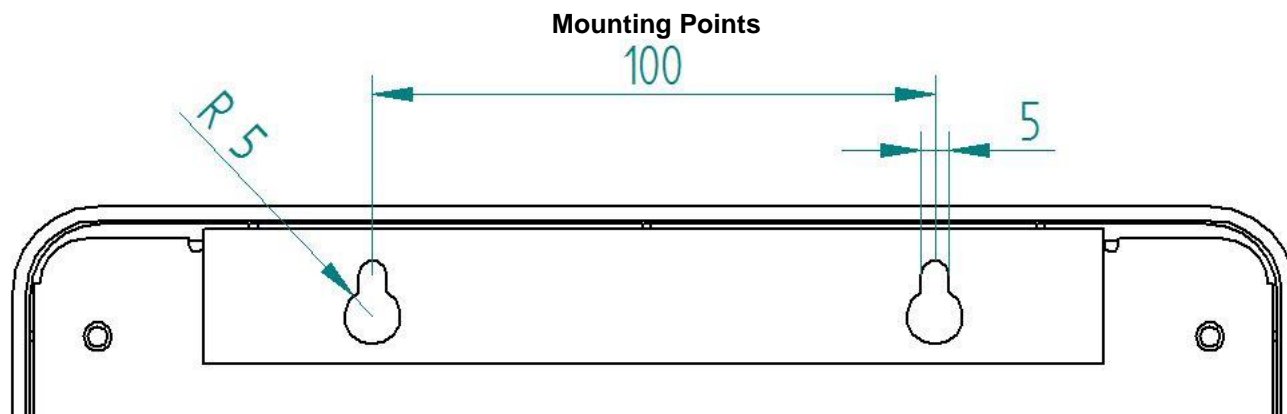
These installation and operating instructions will guide you through installation, operation and maintenance of your new controller. Regular maintenance will ensure many years of trouble free operation.

1.1 Kit Contents

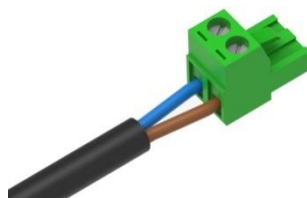
Quantity	Item	
1	SLX Connect LITE+ Controller 240 VAC GPO outlets *2 12 VAC Light outputs *4	
1	8 Button RF Remote Control	
4	Light power supply plug	
2	Screw 8G*3/4	
2	Masonry plug 8G*25mm	

2.0 Basic Installation Instructions

1. The Connect LITE+ Controller mounts use a “keyhole” mounting system, as shown in the following diagrams. Having identified a suitable installation location, insert the two provided mounting screws into the wall with a 100mm spacing. If affixing to masonry, use the provided masonry plugs.



2. Hang the Connect LITE+ Controller from the two screws, ensuring that the power supply drops down into place and is locked in position. Plug the controller mains cable into a 15 Amp mains outlet.
3. Ensure mains power to the Connect LITE+ Controller is off.
4. To connect your lights to the power supply (12 VAC, 1.5 A per light Max), insert each wire of the light cable into one of each opening in the supplied green connectors, and then tighten the screws on top. The wires can go into either opening, as there is no polarity.



5. Insert each green connector into any of the available positions in the base of the Controller. The connectors will only insert one way. (See Figure 1) See also Section 2.2 regarding naming Lighting Zones and allocating lights to these Zones.
6. Insert the required 240 VAC plugs into the base of the Controller. NOTE that the total current draw from the 2 outlets must not exceed **14.5 Amps**! See also Section 2.2 regarding naming Channels and allocating them to the Power Outlets.
7. Connect any RJ12 cables that are required for communicating to other Astral Pool equipment
8. Ensure that all wiring and connected equipment is safe and ready to start, then turn mains power on to the Controller. To turn the lights and other equipment on, press the appropriate button on the RF Remote Transceiver.
9. The RF Remote Transceiver can also be used to change the Light Colour (COLOUR Button) and to synchronise each light zone to the specified colour if necessary (SYNC Button). In Basic Installations, the ALL AUTO button on the RF Remote Control isn't used (It has no function) See Section 3.1 "Setting Timers on your Connect LITE+ for use of the ALL AUTO button"

Figure 1



2.1 Connection to a Viron or EQ Chlorinator

The Connect LITE+ can control a Viron or EQ Chlorinator (Version 4.2 and above) without plugging the chlorinator into either of the two 240VAC outlets. Instead the Chlorinator is plugged into a separate 240 VAC outlet and is connected to the Connect LITE+ through the RJ12 communications cable. The Filter pump is then plugged directly into the Chlorinator.

In this configuration, on the RF Remote Transceiver, the Chlorinator is CH1. On the main units display it will be shown as Channel 1 Filter Pump

The two 240 VAC outlets on the Connect LITE+ can then be used to power other devices such as Cleaners, Water Features, Blowers etc.

The Chlorinator and the other Channels are then controlled either by the RF Remote Transceiver or Manually using buttons on the Main Control Unit or Automatically through timers in the Connect LITE+

Refer to your Viron or EQ Chlorinator user instructions for full details, but the following is a quick guide.

- Ensure that your Viron or EQ Chlorinator is installed with "Timer Disabled", "G4 System Installed", "Fast Comms" enabled" and "Light Disabled"

IF Ai Mode is required, ensure that the chemical sensing probes are plugged in. Both the EQ Chlorinator and the Connect LITE+ need to be set to Ai Mode during the installation process.

2.2 Install menu

The Install menu is used to allocate names to the Power outlet channels and to the Lighting Zones as well as to set up a replacement Hand Held RF Transceiver. (The RF Transceiver that comes with the kit is already setup so doesn't need to be configured)

If an EQ or Viron Chlorinator is to be used in this installation, ensure that it is installed as above and that the RJ12 cable is connected.

To enter the Install menu press "**MAINT**" and then "**INSTALL**".

From here you can either install Equipment such as Pumps and Lights etc or RF devices. As the RF Transceiver is factory set, the RF menu will be covered in Section 4.2 Advanced Installation Instructions.

Press **"EQUIPMENT"** and the Connect LITE+ controller will start to detect other AstralPool devices that are connected to the Connect LITE+

The list of **"FOUND"** equipment will be displayed for a few seconds and then the installation can continue.

"TIMERS ENABLED" is the default setup (unless a Touchscreen has been detected). If you do not wish to use timers (Auto Mode) then you can use the arrow buttons to change it to Timers Disabled. Press **ACCEPT** to store this setting

"USE 3 SPEED PUMP?" Use the arrow keys to select Yes if an Astral Pool 3 speed pump is being used otherwise select No. Press **ACCEPT** to store this setting.

"ALLOCATE CHANNEL 1" If a Viron or EQ Chlorinator was detected, Channel 1 will default to FILTER PUMP otherwise it will default to UNUSED. N.B. You can use the arrow keys to select FILTER PUMP if a Viron or EQ Chlorinator is being added after the Connect LITE+ installation. Press **ACCEPT** to store this setting

"ALLOCATE POWER" "CHANNEL 2 OUTLET" Use the arrow keys to allocate the Name of the equipment that is plugged into the Channel 2 power outlet and then press **ACCEPT** N.B. If there is no equipment plugged into this power outlet it can be allocated to UNUSED and then it won't appear in other menus.

"ALLOCATE POWER" "CHANNEL 3 OUTLET" Use the arrow keys to allocate the Name of the equipment that is plugged into the Channel 3 power outlet and then press **ACCEPT** N.B. If there is no equipment plugged into this power outlet it can be allocated to UNUSED and then it won't appear in other menus.

"ALLOCATE NAME" "ALLOCATE ZONE 1 NAME" Use the arrow keys to allocate the Name of Lighting Zone 1 and then press **ACCEPT**

"ALLOCATE NAME" "ALLOCATE ZONE 2 NAME" Use the arrow keys to allocate the Name of Lighting Zone 2 and then press **ACCEPT**. N.B. If only one Zone of Lighting is required, then Lighting Zone 2 Name should be set to NONE and then it won't appear in other menus.

"ALLOCATE LIGHTS" "LIGHT OUTLET A" Use the arrow keys to allocate the Light that is plugged into Light Outlet A to a Lighting Zone

Repeat the above step to allocate the Lights plugged into LIGHT OUTLET B, C & D.

Refer to Section 4.1 Advanced Installation Instructions for **"ADVANCED SETUP"**

3.0 Using your Controller

The Display on the Connect LITE+ will go into "sleep mode" after 1 minute of inaction and the display will turn dark.

To return from "sleep mode" press any button on the control panel. (This initial press will not cause any action other than to turn the display back on)

Your Connect LITE+ Controller operation can be divided into 5 areas;

- a. **"MAINT"** - Maintenance selects specialised functions of your controller and initial set up to suit your pool.
- b. **"CONTROL"** - Allows you to manually control individual **"POWER"** Outlets or **"LIGHTS"** and set them to ON, OFF or AUTO modes.
- c. **CLOCK** Button - Allows you to set the current time.
- d. **TIMER** Button - Allows you to set timers to control the Power and Light outputs.
- e. **MODE** Button - Allows you to set all of the Power and Light outputs to All On, All Off or All Auto.

3.1 Setting Timers on your Connect LITE+ Controller.

Your Connect LITE+ has 4 timers per day enabling you to set different periods in which your Chlorinator/Filtration pump, Lights and other items of equipment can be run. Timers are set by entering a start time, and a RUN time for how long you want equipment to operate.

Within a Timer period, you can either set Equipment and Lights to be in either AUTO mode or OFF mode.

To set the Timers use the following sequence:

Press the **TIMER** button.

Press the HOUR button to set the hour for the timer selected and use the Up/Down arrows to change the Start time.

Press the MIN button to select the minutes for the timer selected and use the Up/Down arrows to change the Start time.

Press the NEXT button to select the RUN time and adjust as required using the Up/Down arrows. Note: The RUN time represents the number of hours you want the unit to operate for.

You can then select which equipment, Lights etc., that you want to run during this timer period. If a variable speed pump is enabled, you can also set the pump speed for this timer period.

If Ai Mode is enabled on the Connect LITE+ (and on the Chlorinator) you can set the pump speed to Ai Mode or if you want to override Ai Mode for that timer period, you can set the speed to Medium or High speed.

Only equipment that has been enabled during the Install process will appear in the timer lists.

When finished, press the NEXT button to set up other Timer Periods. (You can press NEXT to scroll through the other times if required.) When all of the timers have been set, the screen will return to the normal display. This saves the new settings.

3.2 Controlling your Connect LITE+ using the RF Remote Control.

The Channel and Lighting buttons on the RF Remote Control are used to Turn the appropriate Channel/Lighting Zone to ON or OFF mode.

The RF Remote Control buttons get “feedback” from the Main Controller, so that when a button is pressed the LED above the button will glow green for approximately 5 seconds if the Power Outlet or Light is being turned to ON mode. If the Power Outlet or Light is being turned to OFF Mode by the button, the LED will flash for approximately 5 seconds.

“ALL AUTO” Any Power Outlets or Lights that have been selected to be controlled by a timer will be set to AUTO Mode. If any Power Outlets are in ON mode when this button is pressed they will be turned off and the Timers will take control.

“CH1” If a Viron or EQ Chlorinator is installed, the Filter Pump will be controlled by this button. If a Viron or EQ Chlorinator isn’t installed, this button will not have any function.

“CH2” This button is used to turn the Power Outlet on the LHS of the Main Controller ON or OFF.

“CH3” This button is used to turn the Power Outlet on the RHS of the Main Controller ON or OFF.

“LIGHT 1” This button is used to turn lights that have been assigned to Lighting Zone 1 ON or OFF.

“LIGHT 2” This button is used to turn lights that have been assigned to Lighting Zone 2 ON or OFF.

“SYNC” This button is used to synchronise the lights in both Lighting Zones to the colour that they are set to. If the lights are off at the time that this button is pressed, the synchronisation process will still take place and the lights will flash (to show that synchronisation was successful) and then turn off again. If you wish to have different colours in each zone, you need to use the buttons on the Main Controller to achieve this.

“COLOUR” This button is used to change the colour of the lights. If the Lights are off when this button is pressed, they will turn on at the last used colour. The next press will then change the colour of the lights.

3.3 Controlling your Connect LITE+ using the Main Controller buttons.

Equipment and Lights can be manually controlled using the buttons on the Main Controller.

(If the equipment is set to ON, it will remain on until it is set to OFF or AUTO. To enable it to use the inbuilt timers it needs to be set to Auto.)

From the home screen of the controller, press **“CONTROL”**, Then choose either **“POWER”** to control the equipment, or **“LIGHTS”** to control the Pool or Spa Lights.

If you press **“POWER”** the first item of equipment will be displayed and you can use the arrow buttons to set this equipment to ON, OFF or AUTO.

The **“NEXT”** button can be used to move to the next piece of equipment and the **“EXIT”** button is then used to return to the home screen.

Similarly, if you press **"CONTROL"**, then choose **"LIGHTS"** to control the Pool or Spa Lights you can then choose to turn that Lighting Zone to ON, OFF or AUTO using the arrow buttons. You can change to the next Lighting Zone by pressing the **"NEXT"** button or you can press the **"COLOUR"** button which will display the current colour of that zone. Pressing **"CHANGE"** will change the colour of the lights in that zone or pressing **"SYNC"** will synchronise the lights in that zone.

If you have 2 zones on Lighting installed, the final question will ask if you want to synchronise both zones to the same colour.

4.0 Advanced Installation Instructions

4.1 Install Menu – Advanced Set Up - Selecting SLX or Spa Electric Lights and Clock calibration.

The Advanced set up menu can be accessed by scrolling through the Install menu.

i.e. Press **"MAINT"/ "INSTALL"/ "EQUIPMENT"/ "ACCEPT"/ "ACCEPT".....**
until you get to **"ADVANCED SETUP"**.

Press **"NEXT"** and you will be asked what Light Type you have.

The default is Astral Pool **"SLX"** Lights, however if Spa Electric Lights are fitted then you can use the Arrow Keys to select **"SPA ELECTRIC"** which will enable correct colour control and Light colour synchronisation of Spa Electric Lights

After selecting the Light type, if you press **"NEXT"** you will have the option to **"CALIBRATE CLOCK?"**

If you select **"YES"**, you will enter the clock calibration screen.

To calibrate the clock you need to know how many minutes fast (or slow) the clock is over how many days.

e.g. You may have observed that the clock is 2 minutes fast over 30 days. Then you can use the arrow keys to enter how many minutes fast it is over how many days. Once you have entered this information press **"NEXT"** and **"ACCEPT"** to accept the data. If the adjustment is too large, the board will advise you to contact your Astral Pool representative. (NB If the Clock is running slow, then use the arrow keys to enter a negative number)

4.2 Install Menu – RF Installation

1. The remote control supplied with your product is set up or "paired" so that it will only control your Connect Lite+ Controller.
2. If you purchase a new remote control, you will need to pair the new remote control to your unit by following the following sequence.
 - From the main screen of the Connect LITE+ press **"MAINT"**
 - Press **"INSTALL"**
 - Press **"RF"**
 - Press **"Yes"** in answer to the question **"Pair to RF Handset?"**
 - Then Press and Hold the **"All Auto"** and **"CH1"** button on the RF Handset. If pairing is successful, the display will show that pairing was successful.

RF Remote Controllers use a "Network ID" to ensure that they don't interfere with a neighbours control.

If you are concerned that there is interference, you can change your Network ID by the following method.

- From the main screen of the Connect LITE+ press **"MAINT"**
- Press **"INSTALL"**
- Press **"RF"**
- Press **"NO"** in answer to the question **"Pair to RF Handset?"**
- The existing Network ID will be displayed. If you want to change the Network ID, press **"Change"**.
- You will be advised that if you proceed you will have to re-pair your handset (and any other RF link transceivers.). If you answer OK to this, you will have to re- pair your Handset as above.
- If you are using Transceivers to link with a Touchscreen or similar, you will need to enter this new Network ID number into the Touchscreen using **"Configure Wireless"** in the Touchscreen Set-Up menu. (See also section 4.5 "Connecting a Touch Screen Transceiver or a Cable Free Extender")

4.3 Connecting a Connect LITE to a Connect LITE+ system

If more than 4 lights are required, a Connect LITE can be connected into a Connect LITE+ system.

The Connect LITE is plugged into a separate 240 VAC outlet (Not one of the Connect LITE+'s outlets) and an RJ12 data cable is connected between the Connect LITE and the Connect LITE+.

The lights that are connected to the Connect LITE can operate in either Lighting Zone 1 or Lighting Zone 2 depending on the DIP Switch setup of the Connect LITE. (See also Connect LITE installation Instructions).

Up to 4 Connect LITE's can be connected to a Connect LITE+, giving a total of 20 Lights. All of these lights can be in the same Zone, or they can be spread across both zones.

4.4 Connecting a Touch Screen to a Connect LITE+ system

The Connect LITE+ can be controlled by an AstralPool Touchscreen.

If a Touchscreen is connected into the system, then the Touchscreen will take over control of the system. i.e. Use the Touchscreens In-built Timers to control the system and control the Connect LITE+ through the RJ12 cable.

The Touchscreen should be set up as 4 Channels and 1 or 2 Zones for Lighting.

If a Viron or EQ chlorinator is used, it should be set to "Timer Not Enabled", "G4 System Installed" etc and Channel 1 on the Touchscreen should be set to "Filter Pump". (Channels 2 & 3 are then set to control the two 240VAC outlets in the Connect LITE+ and Channel 4 should be configured as "Unused")

NB. There are a number of Touchscreen options that are not available on a Connect LITE+ system such as No Solar Control, No Valve control and no Customisable Switches. Other features such as Heating can be included in a Connect LITE+ system.

4.5 Connecting a "Touchscreen Transceiver" or "Cable Free Extender" to a Connect LITE+ system

If a Touchscreen or an Internet Gateway is required in the system and an RJ12 cable can't be run to it, a "Touchscreen Transceiver" or "Cable Free Extender" (Part # 10016) can be utilised. Follow section 4.2 above to determine the Network ID of your Connect LITE+ and then on the Touchscreen press "Set up", then "Configure Wireless". Enter Code 1,2,3,4 and then press "Install Transceivers" and then "Install Fixed Transceivers", press "Next" and then use the keypad to enter the Connect LITE+'s Network ID.

The "Touchscreen Transceiver" or "Cable Free Extender" then needs to be connected to the Touchscreen via an RJ12 cable to transfer the Network ID. Once it is connected, press "Next" and the code will be transferred.

The Touchscreen on screen instructions can then be followed to test the Transceiver.

4.6 Connecting an "Internet Gateway" to a Connect LITE+ system

An Internet Gateway can be connected to a Connect LITE+ system. An RJ12 cable needs to be run to the Internet Gateway and then the Internet Gateway can connect to the Internet via a WiFi or Ethernet Connection to enable control of your Connect LITE+ from your Smart Phone or Tablet.

The installation of the Internet Gateway is a simple three stage process. Follow these instructions carefully and you will have instant access to control your Connect LITE+, no matter where you are: in your house, on the way home from work, or on the way to your holiday home.

Stage 1: install the hardware and connect to your home Wi-Fi or internet Router.

Stage 2: register your pool owner's details and any other authorised users at www.connectmypool.com

Stage 3: Download the ConnectMyPool App from the Apple App store or Android Play Store

Stage 1 – Installing the hardware and connecting to your home Wi-Fi or Internet Router.

The most common way of connecting the 'Internet Gateway' (Part # 10030) to the internet via a home Wi-Fi connection is shown below. Wherever possible though, it is always recommended to connect via Ethernet cable. Use of a "Touchscreen Transceiver" or "Cable Free Extender" (Part # 10016) are recommended for retrofitting control system to existing pool system, or where cable installation is impossible. If area is known to have poor Wi-Fi or reception quality, then Ethernet installation is highly recommended.

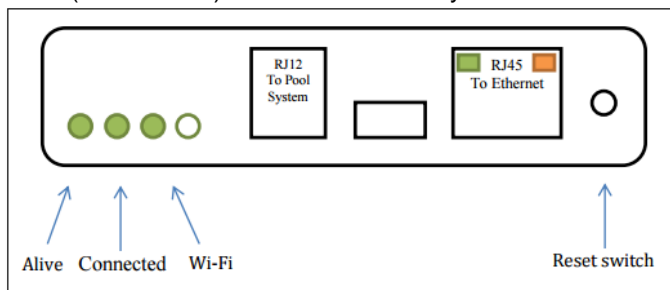
In all cases the internet connection must be permanently connected to a broadband internet service. (The Internet Gateway cannot be connected via a mobile 'hotspot' or similar).

Prior to commencing the installation, the location of the home Wi-Fi transmitter (or host computer if using an Ethernet connection) must be determined along with the Wi-Fi Network name and Wi-Fi Password or Passcode.

Each Internet Gateway is labelled with its own unique Internet Gateway Serial number. Also within the packaging of the Internet Gateway is the unique Internet Gateway Passcode. **This label will be required to register the Internet Gateway onto the internet and needs to be retained by the pool owner.**

The home Wi-Fi signal strength can initially be observed using a mobile phone as a guide. As a reliable connection is essential, it is important to find a position that has a strong Wi-Fi signal. The Internet Gateway has a reset button in its base, as well as LEDs that will assist when determining the final position for installation. Once an approximate position is determined, the 'Internet Gateway' Can be connected to a loose RJ12 cable until the location with best signal strength is found.

Base (underneath) of Internet Gateway

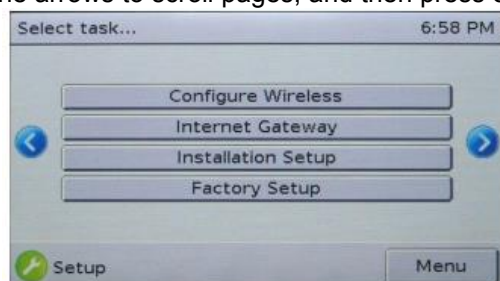


After connecting the Internet Gateway to the Pool System the Home Wi-Fi can be configured. This is achieved using the Touch Screen

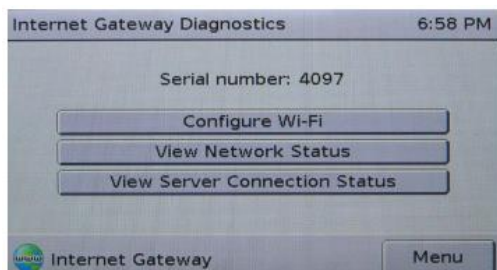
1. On the Touchscreen, go to 'Setup'.



2. Use the arrows to scroll pages, and then press on the 'Internet Gateway' button.



3. You are now shown the main Internet Gateway Diagnostics page. This page allows you to configure the Wi-Fi settings. On this page the Internet Serial Number is also displayed. If the serial number is shown as '???', then the Touchscreen cannot communicate with the Internet Gateway. (Refer to troubleshooting before continuing)



4. You are now shown the 'Configure Wi-Fi' page. This page allows you to configure the Wi-Fi settings.



5. If Your WiFi Router is "WPS" compliant, follow your Routers instructions for WPS set up. (Usually press the WPS button on the Router) and then press the "Join with WPS" button on the Touchscreen. If WPS is not available, then press the "Scan" button on the Touchscreen. This will then scan for available networks. Select the appropriate WiFi network from the list and then enter the Passphrase/Password. (Alternatively, from the Configure WiFi screen you can press 'Set network' and use the Backspace button to remove the 'Your Name' text and then use the keyboard to enter the name of your home Wi-Fi connection.) Similarly use the 'Set passphrase' key to set the passphrase/password of your home Wi-Fi connection. **NB Network names and Passphrases are case sensitive- make sure you enter them correctly and exactly otherwise system will not connect to network.**

6. From the 'Configure Wi-Fi' screen, press the 'Back' button to go back to the 'Internet Gateway Diagnosis' screen and then press the 'View Network Status' button to check the signal strength. It will take a few minutes to connect to the Wi-Fi, but at the end of the connection process the screen should show that the connection is Enabled, Initialized and Linked. It should also show the home IP address and the Wireless Signal strength. (Wi-Fi) The Wi-Fi signal strength should be 29 or greater. If it is less than 29 the Internet Gateway should be moved closer to the Home Wi-Fi source to ensure reliable and stable connection.

	Ethernet	Wireless
Enabled:	Yes	Yes
Initialised:	Yes	Yes
Linked:	No	Yes (local)
IP Address:	192.168.1.1	192.168.0.116
Strength:	N/A	41

At the bottom of the screen, there is a 'Data Collector' icon, a 'Refresh' button, and a 'Back' button.

If the Wi-Fi signal strength is 29 or greater, the Internet Gateway can be mounted in position.

4.7 Registering “Pool Owner” and authorised “Users” of the Pool App

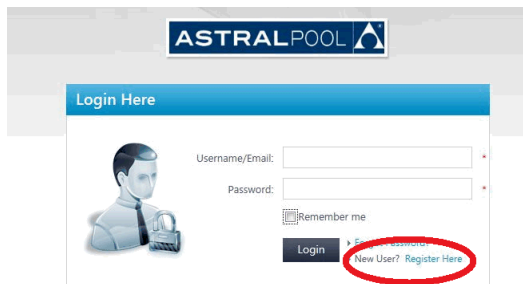
In order to activate the ConnectMyPool App you must register the pool’s owner. The Pool Owner will have authority to access applicable functions in the Viron Connect 10 Pool and Spa controller and also delegate access to other users – which may be other members of the family or your pool service technician.

It is important that the actual Pool Owner is the registered Pool Owner. This ensures that the Pool Owner and his family are given access to the ConnectMyPool App and control of the pool and NOT the installer or service technician.

To register to be a Pool Owner and use the Pool App, owners need to have a valid email address and to have purchased an Internet Gateway (Part #10030) which comes with a unique serial number and passcode.

Registration needs to be done on a desktop or Laptop computer (ie not a mobile phone or tablet) and is initialized by visiting <http://connectmypool.com> in your website browser

The following screen will then be visible:

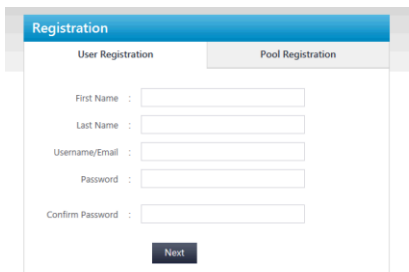


Clicking on ‘Register Here’ will then bring up the User Registration page:

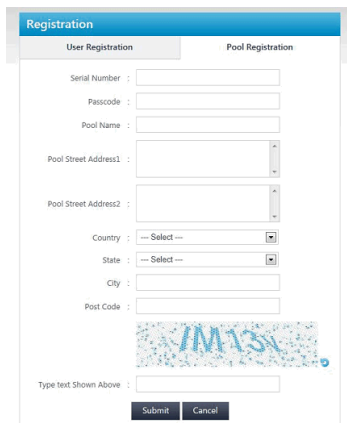
All fields in the User Registration need to be filled out. The email address supplied must be a valid email address as an email with a link in it will be sent to this address.

The Password is used by the Pool Owner to access the App.

In a latter process, other users can be allocated access to this pool. They will be able to use their own password to access the App.



After this is filled in and ‘Next’ is pressed, the Pool Registration page is shown:



The ‘Internet now be entered. and must be included as an

Gateway’s’ unique Serial Number and Passcode must This is found on the registration sticker inside the box kept by the pool owner. This information has been adhesive label for convenience to consumer and also for

security reasons.



The Pool Name that is entered on this page will be displayed on the App. If you plan to be able to log into more than one pool, then the name should describe which pool you are wanting to control. e.g. For this registration you may name the pool 'Jones Home' and for a second Pool Registration it may be named 'Jones Beach'. Once your first Pool has been registered, the second pool can be entered later by logging onto your existing account, (using a desktop computer) through the 'Settings' tab. And 'Add Pool'.

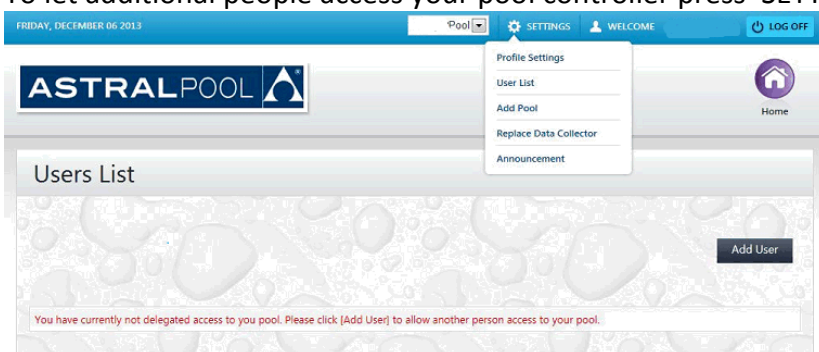
The Pool Street address and Post Code is used to identify the Pool Location and provide weather information for the area around the pool.

After pressing the 'Submit' button above, an email should be delivered to your Email Address. This email will contain a link that you need to press to confirm and complete the registration process. NB. Some providers may interpret this email as Junk. If you don't receive an email within a few minutes please check your **Junk email folder**.

After completing registration, it is necessary to log out. Wait 10 minutes and log back in with the user name/email and password you created. The system should now have configured itself and you will have access to the programming that has already been completed on your Connect 10 touch screen.

After the system has configured itself you can proceed to add more users to your pool if required. This can allow all your family members with a Smart Phone or Tablet to also access the pool and control remotely, or possibly allow your pool technician to monitor your pool water chemistry.

To let additional people access your pool controller press 'SETTINGS', then 'User List', then 'Add User'.



After pressing 'Add User' you will be prompted to enter the new user's name and email address along with their password.

Once a User is added, their ability to access different features can be setup using the 'Screen Configuration' button. (On the 'User List' page).

This feature allows the Pool Owner to grant user access to specific features only. For example if the pool has heating, the pool owner can restrict a user from changing the temperature etc.

In addition, the new User once added, will receive an email which will require them to 'confirm' their link to your pool and then download the Connectmypool.com app.

In certain circumstances, you may wish to give access to service people or guests. They can be added to the User list as above and their access can be deleted later if desired.

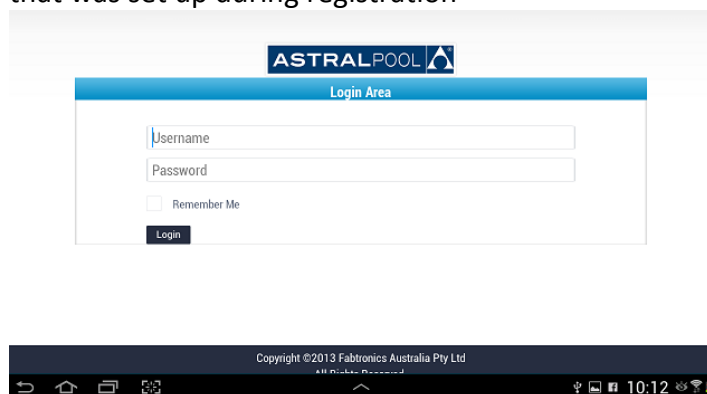
Other features on the 'Settings' page include the ability to add another pool to your App. To do this you need to purchase a separate Internet Gateway and connect it to the new pool. Remember to make the new pool name descriptive so that you can easily see which pool you are controlling. (On the App, tapping the pool name will bring up a list of your available pools if you have more than one.

4.8 Downloading the "ConnectMyPool" App to your Smart Phone or Tablet

Go to the Apple App Store or Android Play Store and search for ConnectMyPool to download and Install the App. Enter the user name/email address and password you registered as the Pool Owner or authorised 'User'.



Click on the ConnectMyPool icon and the application will start. Log in using the username and password that was set up during registration



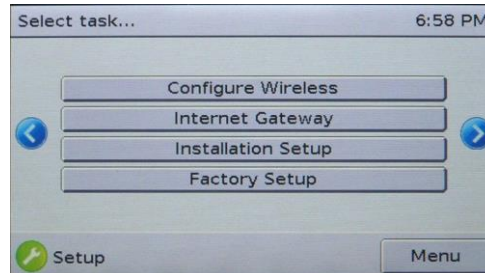
4.9 Internet Gateway Troubleshooting

To confirm that the Internet Gateway is able to connect to the ConnectMyPool servers, follow these steps.

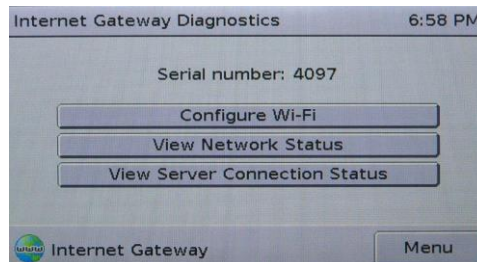
1. On the Touchscreen, go to 'Setup'.



2. Use the arrows to scroll pages, and then press on the 'Internet Gateway' button.

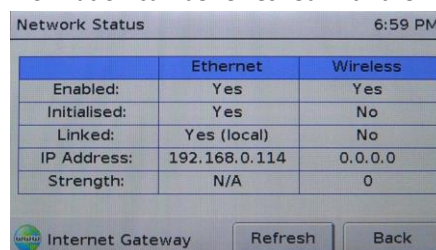


3. You are now shown the main Internet Gateway Diagnostics page. This page shows you the serial number of the 'Internet Gateway', as well as allowing you to perform further configuration or diagnostics.



If the serial number is shown as '???'', then the Touchscreen cannot communicate with the Internet Gateway. Check that the Internet Gateway is plugged in to the pool system, using normal flat-cable RJ12 connection, and that the plugs of the RJ12 cable have the correct orientation.

4. Press the 'View Network Status' button. This page shows you the status of the two network connections of which the Internet Gateway can make use. The information can be refreshed with the 'Refresh' button.



	Ethernet	Wireless
Enabled:	Yes	Yes
Initialised:	Yes	No
Linked:	Yes (local)	No
IP Address:	192.168.0.114	0.0.0.0
Strength:	N/A	0

At the bottom of the screen, there is a green "Internet Gateway" button, a grey "Refresh" button, and a grey "Back" button.

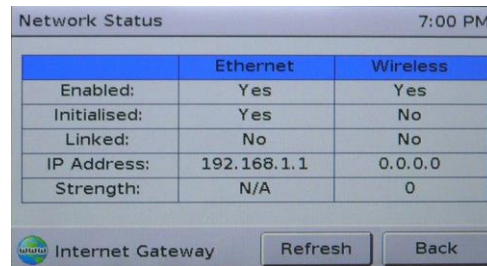
The Internet Gateway can use either wired (Ethernet) or wireless (Wi-Fi) connection. The status of each is shown in the table.

If the table is filled with '?', then the Touchscreen cannot communicate with the Internet Gateway. Check that the Internet Gateway is plugged in to the pool system, using normal flat-cable RJ12 connection, and that the plugs of the RJ12 cable have the correct orientation.

In most cases, the Internet Gateway will only be using one of the two connection methods. To confirm that the Internet Gateway has a proper network connection, the following is required for either the Ethernet or Wireless connection:

- The 'Linked' field for the appropriate connection method must be 'Yes'; and,
- The IP address must NOT be '0.0.0.0'.

In the image shown above, the Ethernet connection indicates that it is operating correctly, whilst the Wireless connection shows that it is not operating.



The screenshot shows a 'Network Status' window with a timestamp of 7:00 PM. It contains a table with two columns: 'Ethernet' and 'Wireless'. The rows show status for 'Enabled', 'Initialised', 'Linked', 'IP Address', and 'Strength'. Below the table are buttons for 'Internet Gateway', 'Refresh', and 'Back'.

	Ethernet	Wireless
Enabled:	Yes	Yes
Initialised:	Yes	No
Linked:	No	No
IP Address:	192.168.1.1	0.0.0.0
Strength:	N/A	0

In the image above, the Ethernet connection is no longer operating correctly, as the 'Linked' field shows 'No'.

Troubleshooting The Ethernet Connection

'Initialized' shows 'No'

The Internet Gateway was unable to initialize the Ethernet connection. Cycle power to the Internet Gateway and wait 1 minute to allow for re-initialization. If the problem persists, call AstralPool for support.

'Linked' shows 'No'

Check that the Ethernet cable is correctly connected to both the Internet Gateway and the pool owner's home network hub (router).

Check the orange light beside the Internet Gateway's Ethernet connection; if it is illuminated, the Ethernet connection is present and there may be a problem with the router or internal security of the home network. Call network support to clarify issue. If network connection ok and the problem persists, call AstralPool for support on 1300 244 414

Troubleshooting The Wireless Connection

'Initialized' shows 'No'

The Internet Gateway was unable to initialize the Wireless connection. Cycle power to the Internet Gateway and wait 1 minute to allow for re-initialization. Check all connections and signal strength ok. If the problem persists, call AstralPool for support.

'Linked' shows 'No'

The Internet Gateway was unable to connect to the pool owner's wireless network. Verify that the network name and passphrase have been correctly configured by re-entering them into the Touchscreen. Allow the Internet Gateway 30 seconds to attempt connection to the home network before proceeding.

Cycle power to the Internet Gateway and wait 1 minute to allow for re-initialization. If the problem persists, call AstralPool for support.

IP Address shows '0.0.0.0'

The most common cause is that the Internet Gateway is right on the fringe of wireless range. Try moving the Internet Gateway closer to the pool owner's wireless router, then cycle power to the Internet Gateway to cause re-initialization. Ideally, the strength should be shown as 29 or greater. If the problem persists, consider changing from Wireless to Ethernet connection types.

5. Return to the main Internet Gateway Diagnostics screen by pressing 'Back'.
6. Press the 'View Server Connection Status' button. This page shows you that status of the connection between the Internet Gateway and the connectmypool server.



If the status is shown as '?', then the Touchscreen cannot communicate with the Internet Gateway. Check that the Internet Gateway is plugged in to the pool system, using normal flat-cable RJ12 connection, and that the plugs of the RJ12 cable have the correct orientation.

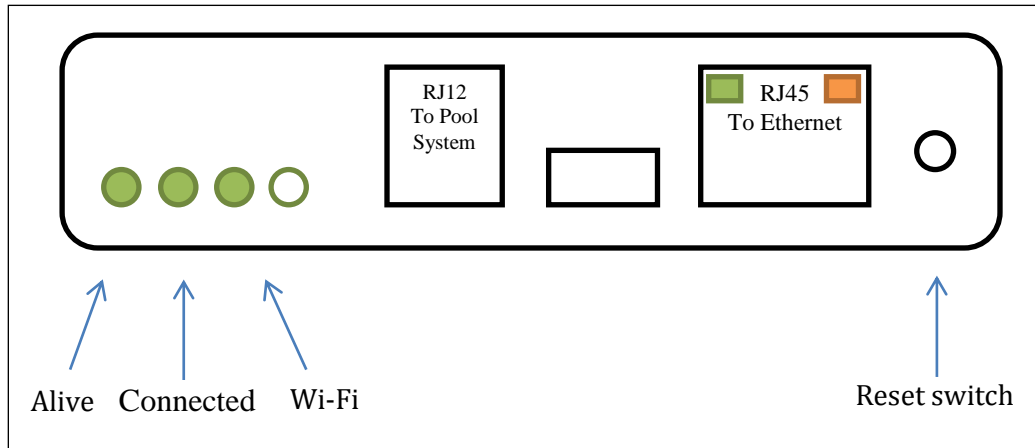
The 'status' field will show a numerical code and a text explanation. See the table below for more information. The two most common codes you will see are 32769 and 61440. These codes indicate that the connection to the server is open/closed normally. Other codes may indicate a fault condition, or be 'connection in progress' codes.

If you need to update the information on the screen, press 'Refresh'. If you wish to force the Internet Gateway to recommence the connection sequence, press 'Reconnect'. Note that the internet Gateway will periodically attempt reconnection automatically (typically 30 seconds, but the pool owner can adjust this through the ConnectMyPool website).

Code	Text	Meaning
0	Idle	The IG has not yet attempted to connect to the server. Wait for the IG to automatically connect, or press 'Reconnect' to force a connection attempt.
32768	Connection open	The connection to the server is open, but no communication has yet been received. If this state persists for more than 30 seconds, please call AstralPool for support.
32769	Communicating with server	The connection is open and the Internet Gateway is communicating normally with the ConnectMyPool server. This is not a fault state; this is normal operation.
61440	Connection closed	The connection to the ConnectMyPool server was closed as part of normal operation. This is not a fault state; the IG will automatically reconnect shortly.
256	No suitable interfaces ready	The Internet Gateway is unable to connect to the internet because none of its interfaces (Ethernet or Wireless) are operating correctly. Return to the receding troubleshooting steps to confirm that at least one of the network interfaces is operating correctly.
513	DNS resolve error	The Internet Gateway was unable to determine the IP address (internet address) of the ConnectMyPool server. The most likely cause is that the pool owner's internet connection has failed. Verify that the home internet connection is still operating.
769	Internal error creating local socket	The Internet Gateway has suffered an internal error. Cycle power to the Internet Gateway; if the problem persists, call AstralPool for support.
1024	Connecting to server	The Internet Gateway is trying to connect. If this state persists for more than 30 seconds, call AstralPool for support.
1025	Failed to connect	The Internet Gateway was unable to connect to the ConnectMyPool server. The most likely cause is that the pool owner's internet connection has failed. Try to verify that the home internet connection is still operating. If the problem persists, cycle power to the Internet Gateway. Call AstralPool for further support if required.
61441, 61442, 61443, 61444		The connection to the ConnectMyPool server has been closed due to various errors. One cause is the loss of the pool owner's internet connection. Try to verify that the home internet connection is still operating. Press 'Reconnect', and wait for the IG to attempt to reconnect to the ConnectMyPool server. If you continue to get these error codes, call AstralPool for support.
Others		There are other status codes that won't be detailed here. If the Internet Gateway gets "stuck" on one of them, call AstralPool for more details.

Internet Gateway Status Lights

The image below shows the bottom view of the Internet Gateway module.



The Internet Gateway has three main status lights.

The 'Alive' status light flashes once every two seconds to indicate that the module is powered and operating correctly. The 'Connected' status light provides information about whether the Internet Gateway is/was able to connect to the ConnectMyPool servers.

- When this connected light is off, the Internet Gateway has not yet attempted to connect to the ConnectMyPool servers (such as just after powering up).
- When this light is solidly illuminated (not flashing), then the Internet Gateway is currently connected to the ConnectMyPool servers.
- When this light is flashing, the Internet Gateway is no longer connected to the ConnectMyPool servers. If it is giving a single flash, then the connection to the servers was closed normally. If it is giving a double-flash, then the connection to the servers was terminated due to an error.

The 'Wi-Fi' light indicates the status of the wireless connection. When this light is off, there is no wireless connection. When this light is lit, it means that the Internet Gateway is properly connected to the pool owner's Wi-Fi network. It will blink briefly when the Internet Gateway is sending or receiving information over the wireless network. Please note that this indicator is only giving the status of the local connection to the wireless network. The status for the connection to the ConnectMyPool servers is still given by the 'Connected' indicator.

The Ethernet connector has two in-built indicators. The orange indicator is illuminated when the Ethernet connection is properly connected to the pool owner's Ethernet network. Please note that this indicator is only giving the status of the local connection to the Ethernet network. The status for the connection to the ConnectMyPool servers is still given by the 'Connected' indicator. The green indicator blinks when there is data being sent or received on the Ethernet network.

MAINTENANCE OF YOUR CONTROLLER

Maintenance Schedule: Your new product incorporates parts to withstand high velocity water with chemicals in it. Some of these parts will wear in the normal course of use and require regular checks and maintenance. Performing these checks and maintenance will identify parts that have worn and require repair/replacement before further serious damage is sustained. A small amount of regular care and attention to your pool equipment will help ensure long life and trouble free performance.

To protect against extremes of temperature, your unit is vented to allow expensive electronics to cool. Ants and some insects are often attracted to the warmer, dry environment inside the enclosure. We recommend that, with power turned off, you spray a surface insecticide on the surfaces surrounding the control to prevent ant and insect ingress. Repeat every three months or as necessary.

Timing	Maintenance Check	Service action (if required)
Three Monthly	Check for insects/ants	Spray a surface insecticide on the surfaces around the unit to prevent ant and insect ingress.

Important note: Regular maintenance is important to ensure long life and trouble free performance of your pool equipment. If unable to perform the maintenance yourself, contact your local AstralPool office who will arrange a trained service technician to perform the maintenance for you.

WARRANTY

AstralPool Australia Pty Ltd (ABN 97 007 284 504) ("AstralPool") provides the following warranty in relation to the SLX series underwater lights("Product").

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

WARRANTY

AstralPool warrants that, subject to the exclusions and limitations below, the Product will be free from defects in materials and workmanship during the warranty period. The warranty periods are set out below and commence 30 days after the date of purchase (to allow for installation). The warranty period may vary for different parts of the Product.

Parts	Warranty Period
Plastic moulded parts - Light, niche and other	5 years
SLX Lighting Transformer, Controllers and/or lamps	1 year

If a defect appears in the Product before the end of the warranty period and AstralPool finds the Product to be defective in materials or workmanship, AstralPool will, in its sole discretion, either:

- replace or repair the Product or the defective part of the Product free of charge; or
- Cause the Product or the defective part of the Product to be replaced or repaired by an Authorised AstralPool Service Agent free of charge.

AstralPool reserves the right to replace defective parts of the Product with parts and components of similar quality, grade and composition where an identical part or component is not available.

Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

WARRANTY CLAIMS

1. If a fault covered by warranty occurs, the customer must first contact AstralPool at the contact address listed below, or an Authorised AstralPool Service Agent.
2. Any warranty claim must be accompanied by:
 - (a) proof of purchase;
 - (b) full details of the alleged defect; and
 - (c) appropriate documentation (such as historical and maintenance records).
3. The customer must make the Product available to AstralPool or its Authorised AstralPool Service Agent for inspection and testing. AstralPool or its Authorised AstralPool Service Agent will attend the premises where the Product is installed for inspection and testing. If the Product is installed:
 - (a) outside a capital city metropolitan area; and
 - (b) is not within a 20 km radius of an Authorised AstralPool Service Agent;then the customer may have to pay a travel fee.
4. If such inspection and testing finds no defect in the Product, the customer must pay AstralPool's usual costs of service work and testing. If such inspection and testing finds a defect that is not covered by this warranty, the customer must pay AstralPool's usual costs of service work plus any parts and labour required to repair the Product, unless recoverable from AstralPool on the failure of any statutory guarantee under the ACL.

Exclusions

The warranty will not apply where:

- (a) the customer is in breach of the Terms and Conditions of Sale;
- (b) the Product was used for a purpose other than one it was intended for;
- (c) the Product was repaired, modified or altered by any person other than AstralPool;
- (d) the Product has not been installed, maintained and/or operated in complete compliance with the installation and operating instructions and any instructions by AstralPool;
- (e) the Product has been subject to accident, negligence, alteration, abuse or misuse.

The warranty does not extend to:

- a) normal wear and tear;
- b) weather and other environmental conditions including but not limited to storm, flood, and/or heat wave damage; or
- c) service and maintenance items.

Examples of exclusions include but are not limited to:

- Operation of light out of water
- Use of non-AstralPool power supply

Commercial Installations

On commercial installations, such as health clubs, motels/hotels and hydrotherapy facilities, the warranty is limited to parts and in field labour (within capital city metropolitan areas or 20 km radius of Authorised AstralPool Service Agents) for a period of 12 months from the date of purchase plus 30 days to allow for installation.

LIMITATIONS

AstralPool makes no express warranties or representations other than set out in this warranty.

The repair or replacement of the Product or part of the Product is the absolute limit of AstralPool's liability under this express warranty.