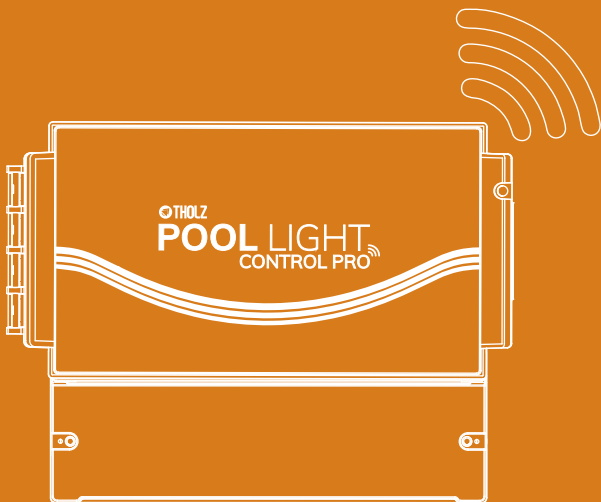




POOL LIGHT CONTROL PRO



USER MANUAL

LED Lights Automation Module

Model: EDX1525N



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Elevate Your Experience!

Your pool control will never be the same again.

Access your device's functions from your smartphone with the Tholz Smart Home app, available on the App Store and Google Play.

Need help setting up Wi-Fi? It's simple!

Refer to page 10 of the manual for detailed instructions or contact Tholz Support for guidance.

Don't wait any longer! Connect now and start enjoying the benefits today.



Enable Technical Access and program from anywhere!

With the new parameter programming tool from Tholz Smart Home, you no longer need to waste time with complicated manuals. Program the parameters of compatible controllers on-site (via Bluetooth) or remotely, from wherever you are, with total ease and convenience through the app.

Want to be more efficient and simplify the controller setup?

Become a technical user! Contact Tholz Support right now and explore all the benefits of collaborating with us. It's simple, hasslefree and with no additional costs. Join us and be part of the innovation!



1. INTRODUCTION



With the Pool Light Control Pro, you can easily enhance your pool lighting experience. This advanced automation controller allows you to control and schedule various lighting colors and effects to create the perfect poolside atmosphere with pool lights. Operate the Pool Light Control Pro via the remote control, the Tholz Smart Home app, or voice commands for complete convenience.

1.1 COMMAND MODULE

1 - WI-FI LED STATUS INDICATOR

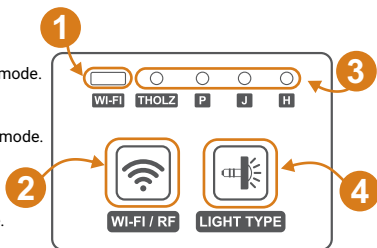
- Steady Green: Connected.
- Blinking Red and Green: Configuration mode.
- Blinking Red: No internet access.
- Blinking Blue: Updating firmware.
- Blinking Red and Blue: RF Registration mode.
- Steady Red: Disconnected.

2 - WI-FI/RF SETTINGS BUTTON

- Press: Enters Wi-Fi configuration mode.
- Three clicks: Revokes all access to the device.
- Five clicks: Enters remote control registration.
- Seven clicks: Removes all remote controls.

3 - LIGHT TYPE LEDS STATUS INDICATORS

- Tholz: Indicates RGB /RGBW/Monochromatic mode.
- 'P': Indicates Pentair® compatibility mode.
- 'J': Indicates Jandy® compatibility mode.
- 'H': Indicates Hayward® compatibility mode.



4 - LIGHT TYPE SETTINGS BUTTON

- Press: Enters light type configuration mode. The LED will blink slowly for RGB, rapidly for RGBW and continuously in a two-blink pattern for Monochromatic. For Pentair®, Jandy®, or Hayward® modes, the LED will blink slowly. Press again to confirm: the LED will turn solid red.
- Clicks: Changes the light type during configuration mode.

1.2 REMOTE CONTROL



1.3 TERMINALS

TERMINAL	DESCRIPTION
1	Line - 120 VAC
2	Neutral
3	Not Used
4	Ground
5	Load - White
6	Load - Black
7	External 1 - 12 VAC Supply - Max. 0.1 A
8	External 2 - Signal Input (ON/OFF Control)

The image shows the back of a light fixture with a terminal block. The terminals are labeled 1 through 8. Terminal 1 is connected to a red wire, terminal 2 to a blue wire, terminal 3 is empty, and terminal 4 to a green wire. Terminals 5 and 6 are connected to two white wires. Terminals 7 and 8 are connected to two green wires. The terminal block is mounted on a metal plate with a label that reads 'LOAD 1', 'LOAD 2', 'EXTERNAL 1', and 'EXTERNAL 2'.

① The EXTERNAL connectors are intended for controlling the device via an external wall switch or for expanding LED output power by connecting additional units of the same equipment.

2. SPECIFICATIONS

2.1 AUTOMATION MODULE

Operating voltage	120 VAC - 60 Hz
Input current	1.15 A
Wi-Fi	IEEE 802.11 b/g/n 2.4 GHz - IPv4
Bluetooth	Bluetooth V4.2 BR/EDR and Bluetooth LE
Operating Range	-4 °F ~ 77 °F
Weight	5.85 lbs
Dimensions	7.28 in (H) x 9.72 in (W) x 4.5 in (D)
Protection rating (NEMA)	Type 3R
Output power	12 VAC - Max. 100 W (LED load)
External 1	12 VAC - Max. 0.1 A
External 2	Signal Input - ON/OFF Control

2.2 REMOTE CONTROL

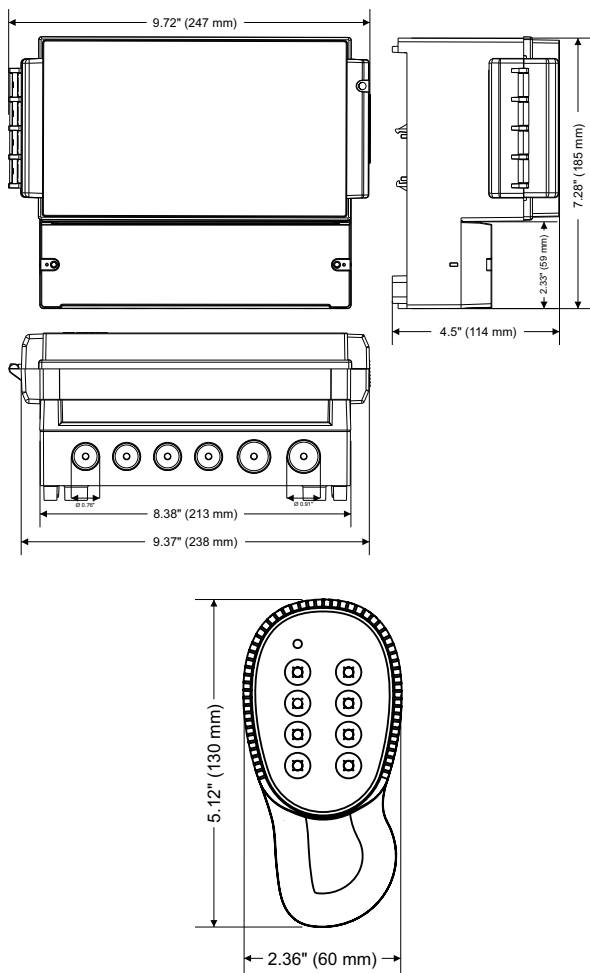
Power Supply	3 VDC (CR2032 battery)
Frequency	915 MHz
Range	65.6 ft. (unobstructed)
Weight	0.18 lbs
Dimensions	5.12 in (H) x 2.36 in (W) x 1.18 in (D)
Protection rating (NEMA)	Type 6P

The remote control is splash-resistant and can withstand being dropped in water, and it can even be submerged without causing any damage to the equipment. However, it is not recommended to force it to stay submerged, such as when a person dives with the remote on their body.

Sharp objects should not be used to select the functions of the remote control, as even a small cut can allow water to enter and damage the control. Similarly, the polycarbonate screen should never be removed, as it is installed with a special water-resistant adhesive.

If it is necessary to replace the battery, carefully open the screws of the control, replace the battery with an identical or equivalent one. When closing the screws, take care to ensure that the ring and the two silicone plugs are properly placed and the screws are correctly tightened to prevent water from entering the product.

3. DIMENSIONS



4. GENERAL OPERATION

The Pool Light Pro is a smart controller for pool lighting automation, offering the flexibility to control and schedule colors, effects, and auxiliary settings. It can be configured to suit different pool lighting preferences and needs. The following section describes how to operate each light mode, their functionalities, and general operation settings, which can be adjusted using the mobile app.

During the synchronization process between color or light show changes, the Pool Light Pro controller pauses its response to remote commands while syncing all connected pool lights to ensure they match perfectly. This process can take a few moments, and the remote control will not be responsive during this time.

Users can monitor the syncing status directly in the Tholz Smart Home app. The app will indicate when the syncing is in progress, ensuring users are informed that the system is aligning each light and color effect.

The lighting mode must be correctly set according to the pool lights being used, whether they are Tholz RGBW, Tholz RGB, Tholz Monochromatic, Pentair® MicroBrite®, Jandy® WaterColors™ or Hayward® ColorLogic®. This ensures full compatibility and optimal performance, allowing synchronized colors and effects throughout your pool lighting system. The synchronization setting determines the period the light will be off during each color/effect change. Adjust this setting only if the lights do not synchronize properly, and do so carefully. Typically, the controller will work fine with the default setting unless the pool light power cable is unusually long.

4.1 OPERATION PARAMETERS

The Pool Light Pro allows users to change the light type (Monochromatic, RGB, RGBW, ...), activate/deactivate notifications, and make adjustments to light control settings.

For more information about technical access, please contact support.

4.2 REMOTE CONTROL REGISTRATION

Function	Description	Min.	Max.	Default	Unit
F01	Light type	Monochromatic/RGB/RGBW/P/H/J		RGBW	Mode
F02	Automatic lighting shutdown	0	600	600	min
F03	Synchronization setting	80	500	120	mils
F04	Errors and warnings	No	Yes	Yes	State

The remote control registration can be accessed through the Wi-Fi Settings button. Press the button five times, and the LED will begin blinking pink, indicating that the product is in Registration Mode. To register the remote control, simply press any button on the remote. The LEDs on the controller will return to the network status color, indicating the registration is complete.

If you need to delete all registrations, press the same button seven times. This will delete all registrations.

5. LIGHTING OPERATION

5.1 GENERAL OPERATION

Pool lights allow control over colors and dynamic light effects. Using the Tholz app, voice assistants, or the remote control, you can switch between predefined colors and effects. Use the rocker switch on the side of the controller to adjust the light state (on or off) and change the light mode by switching several times, depending on the pool light's capabilities.

5.2 LIGHT TYPE ADJUST

The light type can be configured in the Tholz app or via the light type button. Press the light type button for 5 seconds until the current type LED starts blinking. Press the same button to change the light type, and then press it for 5 seconds to confirm.

5.3 LIGHTING SCHEDULES

This feature allows you to set specific times for automatic lighting activation, providing adaptability to various needs and preferences. Using the app, you can easily adjust the color or select a light show for each scheduled event.

5.4 COLORS AND EFFECTS

The available colors and effects depend on the "Light Type" parameter set in the controller. The Pool Light Control Pro offers a variety of vibrant colors and dynamic light shows that are compatible with both RGB and RGBW Tholz Pool Lights. The controller is also compatible with Pentair® MicroBrite®, Jandy® WaterColors™, or Hayward® ColorLogic®, allowing pool lights from other brands to be used with the Tholz smart device.

Tholz RGBW: Warm White, Soft White, White, Cool White, Sky Blue, Aqua Blue, Midnight Blue, Sea Green, Forest Green, Aquamarine, Red, Coral, Magenta, Violet, Patriot Lights, Ocean Breeze and Friday Night.



Tholz RGB: White, Sky Blue, Blue, Green, Cyan, Red, Coral, Magenta, Violet, Patriot Lights, Ocean Breeze and Friday Night.



Pentair®: Sam Mode, Party Mode, Romance Mode, Caribbean Mode, American, California Sunset Mode, Royal Mode, Blue, Green, Red, White, Magenta, Hold and Recall.



Jandy®: Alpine White, Sky Blue, Cobalt Blue, Caribbean Blue, Spring Green, Emerald Green, Emerald Rose, Magenta, Violet, Slow Color Splash, Fast Color Splash, America the Beautiful, Fat Tuesday and Disco Tech.



Hayward®: Voodoo Lounge, Deep Blue Sea, Royal Blue, Afternoon Skies, Aqua Green, Emerald, Cloud White, Warm Red, Flamingo, Vivid Violet, Sangria, Twilight, Tranquility, Gemstone, USA, Mardi Gras, Cool Cabaret.



6. THOLZ SMART HOME APP

6.1 WI-FI CONFIGURATION

To use your controller through the app, download the Tholz Smart Home app available on the App Store and Google Play.

After downloading, log in or create an account. The app will request permissions to configure the product. You must accept these to proceed.

Open the case and press the Wi-Fi button for 5 seconds to enter Configuration Mode. This will be indicated by the Wi-Fi LED flashing orange. In the app, click the "+" button to add a new product, following the instructions in the app. When connected, the Wi-Fi indicator will be solid green.

If you need to revoke user access and reconfigure the controller, click the Wi-Fi button three times to clear the Wi-Fi credentials and remove all user access. To regain access, a new product addition process through the app will be required.



6.2 CONTROL THROUGH THE APP AND ASSISTANTS

With the Tholz Smart Home app, you can control the lights of your pool. Turn on the LED lights, set a color or effect, and schedule the activation of lighting.

With Alexa and Google Assistant, you can create routines and control your pool by voice command, making it even easier to adjust your device settings. Routines can be triggered by different actions and programs within your assistant's app.

6.3 SCHEDULES

On the schedules screen, users can configure the start time, end time, color/effect, repetition during the week, and activation. To use this feature, configure an event with a maximum duration of 23h59min, with repetition on at least one day of the week, and activate it.

6.4 TIME ZONE ADJUSTMENT

By entering the product settings from the app's home screen, press "Time Zone" to edit the Date and Time of the device. These settings are pre-configured at the factory according to the Washington Official Time.

⚠ ATTENTION: When connected to the internet, the controller will update the time to the nearest time zone.

6.5 FIRMWARE UPDATE

This product supports remote software updates to the latest available version. Simply ensure that the device is connected to the internet. If necessary, the app will notify you about the product update. In the app, the update will be indicated on the product page with the message "Updating".

⚠ ATTENTION: During the update, the product will not respond to commands.

⚠ ATTENTION: The total update time varies depending on the quality of the network's internet connection.

6.6 LINKING WITH VIRTUAL ASSISTANTS

By using virtual assistants Amazon Alexa and Google Assistant, users can control their device through voice commands, the assistants' apps, or automation features such as routines based on weather, time, location, and more.

To access all these functionalities, follow these steps:

1. Add your product in the Tholz Smart Home app.
2. In the assistant's app, link the Tholz Smart Home skill/action.
3. Finally, the assistant will automatically search for your products.



7. SAFETY INSTRUCTIONS

It is crucial to read and follow all safety warnings and instructions in the manual. Failure to comply can result in severe injury, death, or property damage.

⚠ Professional installation required: This product must be installed and serviced by a licensed pool equipment professional. Proper installation and maintenance are essential to ensure user safety and prevent electrical shock, fire, or injury.

⚠ Electrical shock risk: There is a significant risk of electrical shock that could result in severe injury or death. Ensure power is turned off at the circuit breaker before installation or servicing. Proper grounding is required, and all installations must comply with national and local codes.

⚠ Electrical installation requirements: All electrical installations shall comply with the National Electrical Code (ANSI/NFPA 70), including Article 680 – Swimming Pools, Fountains, and Similar Installations, the Canadian Electrical Code (CEC), and all applicable local building codes. The electrical supply must include a properly rated switch or circuit breaker that disconnects all ungrounded conductors. GFCI protection is required but not included.

⚠ Wi-Fi and RF installation requirements: An internet connection is required for proper operation. Ensure Wi-Fi signal strength is at maximum during setup. Avoid installing near metallic parts or in environments that weaken Wi-Fi or RF signals.

⚠ FOR OUTDOOR USE ONLY. MOUNT AT LEAST 30 cm ABOVE GROUND: The power unit enclosure shall be located not less than 4 inches (102 mm), measured from the inside bottom of the enclosure, above the ground level or pool deck, or not less than 8 inches (203 mm) above the maximum pool water level, whichever provides the greater elevation.

⚠ Pool equipment location: Locate the power unit enclosure not less than 4 ft (1.2 m) from the inside wall of the pool unless separated from the pool by a solid fence, wall, or other permanent barrier.

⚠ Grounding requirements: Run the branch circuit grounding conductor to the equipment grounding conductor terminal of the panel board. This terminal shall be directly connected to the panel board enclosure to ensure proper equipment grounding.

⚠ INSTALL ONLY ON A BRANCH CIRCUIT PROTECTED BY A CLASS A TYPE GROUND FAULT CIRCUIT INTERRUPTER.

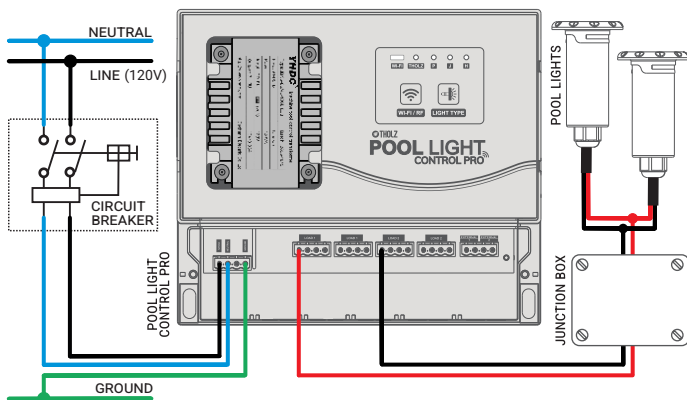
⚠ FOR USE WITH SUBMERSIBLE LUMINAIRE.

⚠ NOT FOR USE WITH DIMMERS.

⚠ DO NOT CONNECT TWO OR MORE POWER SUPPLIES IN PARALLEL.

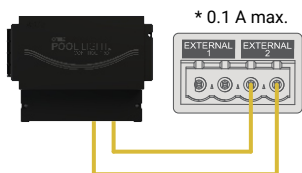
8. INSTALLATION

8.1 ELECTRICAL DIAGRAM

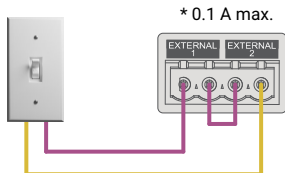


⚠ To install the equipment, unscrew and remove the bottom cover to access the connectors.

8.2 EXTERNAL CONTROL WITH OTHER DEVICE



8.3 EXTERNAL CONTROL WITH WALL SWITCH



The **EXTERNAL** connectors are designed to control the device via an external wall switch or to expand LED output power by connecting additional units of the same equipment.

By connecting a single controller's load output to the **EXTERNAL 2** connectors, the device will receive all commands from the first unit and replicate them to the next, as shown in item 8.2.

Because the **EXTERNAL 1** connector is directly connected to the 12 VAC transformer, it can be used as a power source for the control signal input, allowing the light state to be adjusted with a wall switch, as shown in item 8.3.

9. BUTTON/COIN CELL BATTERY SAFETY

WARNING - BUTTON/COIN CELL BATTERY SAFETY

1. Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
2. Even used batteries may cause severe injury or death.
3. Call a local poison control center for treatment information.
4. This product contains a type CR2032 3V button cell.
5. The button cell is non-rechargeable. Do not recharge.
6. Do not force discharge, recharge, disassemble, heat above 60°C or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
7. Ensure the battery is installed correctly according to polarity (+ and -).
8. Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
9. Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
10. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the battery, and keep it away from children.



THOLZ LLC

www.tholzglobal.com

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