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Astralpool LumiPlus Modbus

ASTRALPOOL LumiPlus Modbus User Manual

Comprehensive guide for installation, operation, and maintenance

1. PRODUCT OVERVIEW

The ASTRALPOOL LumiPlus Modbus is a sophisticated control module designed to integrate and manage LumiPlus pool lighting systems using the Modbus communication protocol. This device enables precise control over your pool's illumination, offering flexibility and advanced automation capabilities for both residential and commercial aquatic environments. It acts as an interface, translating Modbus commands into signals that control LumiPlus projectors, ensuring seamless operation and enhanced user experience.



Figure 1: Front view of the ASTRALPOOL LumiPlus Modbus controller module. This image displays the compact white and blue module, clearly labeled "ASTRALPOOL LumiPlus Modbus," with connection terminals visible at both the top and bottom for wiring.

2. INSTALLATION GUIDE

Proper installation of the LumiPlus Modbus module is crucial for its optimal performance and longevity. This module is designed for integration into existing or new LumiPlus lighting systems. **It is essential to note that a 27818 modulator is**

required for the correct installation and operation of this device. Please consult a qualified electrician or pool professional for installation to ensure compliance with local electrical codes and safety standards.

2.1. Pre-installation Checklist

- Ensure power to the pool lighting system is disconnected at the main breaker.
- Verify you have the necessary 27818 modulator.
- Gather all required tools (screwdrivers, wire strippers, multimeter, etc.).
- Confirm the installation location is dry, well-ventilated, and protected from direct sunlight and extreme temperatures.

2.2. Wiring Instructions

1. Mount the LumiPlus Modbus module securely in the chosen location, ensuring easy access to terminals.
2. Connect the power supply wires to the designated terminals on the module (refer to the wiring diagram provided with the 27818 modulator for specific connections).
3. Connect the Modbus communication lines (A and B) from your Modbus master device to the corresponding Modbus terminals on the LumiPlus module.
4. Connect the output lines from the LumiPlus Modbus module to your LumiPlus projectors, following the specific wiring instructions for your lighting system.
5. Double-check all connections for tightness and correct polarity.

Important: Incorrect wiring can damage the device and pose safety risks. If unsure, seek professional assistance.

3. OPERATING INSTRUCTIONS

The ASTRALPOOL LumiPlus Modbus module operates as a slave device within a Modbus network, controlled by a Modbus master (e.g., a PLC, building management system, or dedicated controller). Communication is established via the Modbus RTU protocol over an RS-485 physical layer.

3.1. Modbus Communication Setup

- **Modbus Address:** Configure the unique Modbus slave address for the LumiPlus Modbus module. This is typically set via DIP switches or software configuration, depending on the specific model.
- **Baud Rate:** Ensure the baud rate of the Modbus master matches that of the LumiPlus Modbus module (e.g., 9600, 19200 bps).
- **Data Format:** Verify parity (None, Even, Odd) and stop bits (1 or 2) settings are consistent across all devices in the Modbus network.

3.2. Controlling LumiPlus Projectors

Once the Modbus communication is established, the master device can send commands to the LumiPlus Modbus module to control the connected LumiPlus projectors. Typical commands may include:

- Turning lights ON/OFF.
- Changing light colors (for RGB/RGBW projectors).
- Adjusting brightness levels.
- Initiating pre-programmed light sequences or effects.

Refer to the specific Modbus register map and command set provided with your LumiPlus Modbus module for detailed programming instructions and available functions. This documentation will outline the Modbus function codes and register addresses required to control various aspects of your LumiPlus lighting system.

4. MAINTENANCE

The ASTRALPOOL LumiPlus Modbus module is designed for minimal maintenance. However, periodic checks can help ensure its continued reliable operation.

- Cleaning:** Gently wipe the exterior of the module with a soft, dry cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- Connections:** Periodically inspect all wiring connections to ensure they remain secure and free from corrosion.
- Environment:** Ensure the module remains in a dry, protected environment, free from excessive heat, humidity, or direct water exposure.
- Firmware Updates:** Check the ASTRALPOOL official website or contact technical support for any available firmware updates that may improve performance or add new features.

Caution: Always disconnect power to the module before performing any maintenance or inspection.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your LumiPlus Modbus module.

Problem	Possible Cause	Solution
Module not powering on.	No power supply; incorrect wiring; faulty power source.	Check power connections and ensure power is supplied. Verify wiring according to the installation guide. Test the power source.
No communication with Modbus master.	Incorrect Modbus address; mismatched baud rate/data format; wiring issues (A/B swapped, loose connections); bus termination issues.	Verify Modbus address, baud rate, and data format settings. Check RS-485 wiring for correct polarity and secure connections. Ensure proper bus termination resistors are used if required.
LumiPlus lights not responding.	Communication issue with Modbus module; incorrect commands sent; wiring issue to lights; faulty lights.	Confirm Modbus communication with the module is active. Review Modbus command set and register map. Check wiring from module to lights. Test lights independently if possible.
Intermittent operation.	Loose connections; electrical interference; power fluctuations.	Inspect all wiring connections. Ensure proper grounding. Consider using shielded Modbus cables in noisy environments. Check power supply stability.

If the problem persists after attempting these solutions, please contact ASTRALPOOL technical support for further assistance.

6. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the ASTRALPOOL LumiPlus Modbus module:

Feature	Detail
Brand	Astralpool

Feature	Detail
Model	LumiPlus Modbus
ASIN	B01JPDQNKS
Height	0.07 meters
Length	0.13 meters
Width	0.12 meters
Manufacturer	Astralpool
Date First Available on Amazon.com.be	June 18, 2022
Spare Parts Availability	Information unavailable on spare parts

7. WARRANTY AND SUPPORT

Specific warranty details for the ASTRALPOOL LumiPlus Modbus module are not provided in this manual. For information regarding product warranty, technical support, or service, please contact ASTRALPOOL directly or refer to the documentation included with your purchase.

You can typically find contact information on the manufacturer's official website or on the product packaging.

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This manual is for informational purposes only and is subject to change without notice.

Related Documents - LumiPlus Modbus

 https://www.astralpoolbasepool.pl/zarowki-basenowe-astralpool	<p>AstralPool LumiPlus Control Motion Remote: Programming and Settings Guide Comprehensive guide for the AstralPool LumiPlus Control Motion remote, covering frequency/channel changes, flood lamp programming, and motion setting activation/deactivation for LumiPlus PAR56 Wireless pool lights.</p>
 https://www.astralpoolbasepool.pl/zarowki-basenowe-astralpool	<p>Astralpool LumiPlus PAR56 Plug&Play Lamp: Installation, Operation, and Safety Manual Comprehensive guide for the Astralpool LumiPlus PAR56 Plug&Play underwater LED lamp, covering installation, electrical connection, operation, troubleshooting, and safety warnings. Includes technical specifications and multilingual declarations of conformity.</p>

 https://www.astralpool.com.pl/zarowni-basenowe-astralpool 	<p>AstralPool LumiPlus Connect Controller: User Manual and Installation Guide</p> <p>This document provides comprehensive instructions for the AstralPool LumiPlus Connect Controller (model 76290), including installation, operation via the Fluidra Pool app and remote controls, technical specifications, safety warnings, and EU declarations of conformity. Designed for smart pool lighting control.</p>
 https://www.astralpool.com.pl/zarowni-basenowe-astralpool 	<p>AstralPool LumiPlus Connect Remote Control - User Manual & Specifications</p> <p>User manual and technical information for the AstralPool LumiPlus Connect Remote Control (models 76291, 76292). Learn about pairing, operation, safety, and EU conformity.</p>
 https://www.astralpool.com.pl/zarowni-basenowe-astralpool 	<p>AstralPool LumiPlus RGB Pushbutton Control System</p> <p>Guide to the AstralPool LumiPlus RGB Pushbutton (COD.32458) for pool lighting. Learn about fixed color selection, automatic color sequences, pulse frequencies, and technical specifications. Control your pool's ambiance with ease.</p>
 	<p>LUMIPLUS ESSENTIAL RGB REMOTE CONTROL - Astralpool</p> <p>Instruction manual for the Astralpool LUMIPLUS ESSENTIAL RGB Remote Control, detailing setup, operation, and safety guidelines for RGB pool lighting systems.</p>