LED pool light Remote Control OWNER'S MANUAL

PL-REM

Long range **DuraLink™** version





Controls Spectravision Pool Lights and 2 auxiliary circuits

Table of contents

Page 3
Page 4
Page 5-6
Page 7
Page 8
Page 8
Page 9



Technical specifications

	1.01
Flectrical	specifications
Licenteat	specifications

Nominal Input voltage Max rating Relay Contacts "Color&Light", "A" and "B" Resistive Load

Inductive Load

Frequency band transmitter IEC Protection Class

230 VAC 50 Hz

14A 250VAC 14A 30VDC 6A 250VAC 6A 30VDC 868 MHz Class II

General specifications Controller

Ambient air temperature Humidity

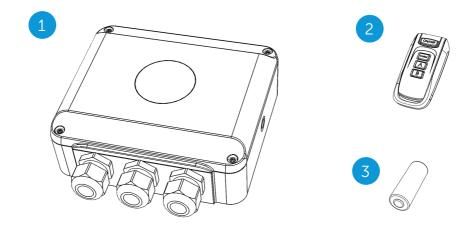
Dimensions Weight Ingress protection rate 0°C ... +40°C 10% ... 90% RH non condensing 150x157x51 mm 500 g IP54



For operation only with 12VAC safety isolation transformer to power Spectravision[®] LED Pool Lights

Box contents

- 1. PL-REM controller
- 2. Handheld transmitter (DuraLink™ version)
- 3. Spare battery (type A23 12V)
- 4. Screws (4x) & wall plugs (4x)
- 5. Owners's manual









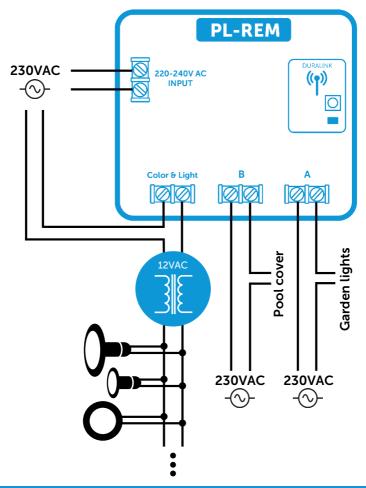


Installation instructions

Option 1: PL-REM in transformer primary

- Connect a 230VAC power source to the "220-240VAC INPUT" terminal
- Connect the primary circuit of a 12VAC transformer (sold separately) <u>in series</u> with the "Color&Light" terminal of the PL-REM.
- Optional: The "Switch A" & "switch B" terminals can be used to control auxiliary circuits like a pool cover or garden lights.

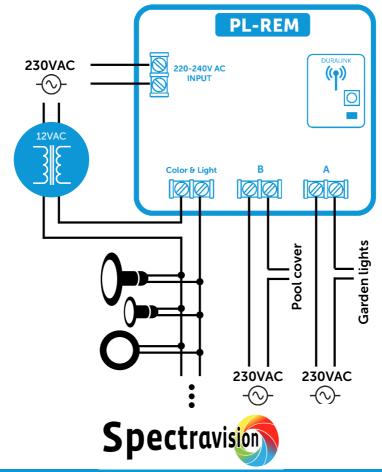
The "Color&Light" relay contact has an output of 14A, which can drive a 12V transformer of max. 3000W (220Vx14A).



Option 2: PL-REM in transformer secondary

- Connect a 230VAC power source to the "220-240VAC INPUT" terminal
- Connect the secondary circuit of a 12VAC transformer (sold separately) <u>in series</u> with the "Color&Light" terminal of the PL-REM.
- Optional: The "Switch A" & "switch B" terminals can be used to control auxiliary circuits like a pool cover or garden lights.

The "Color&Light" relay contact has an output of 14A, or 170W on a 12V transformer secondary (14Ax12V). The total load of pool lights can not exceed this.



Pairing handheld transmitter & controller

The handheld transmitter is already paired in the factory and ready to use. The PL-REM can pair with up to 6 handheld transmitters. In case a problem arises, the pairing process can be done manually:

Manual Pairing process:

Make sure the PL-REM is connected to a power source.

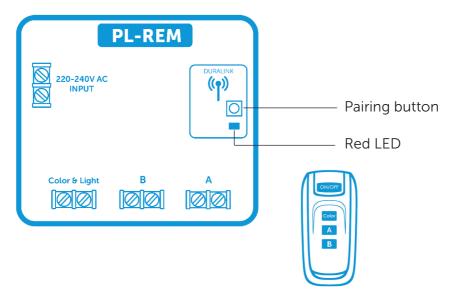
1. Press the pairing button on the small circuit board, inside the controller for at least 5 seconds.

--> The LED will start to blink fast

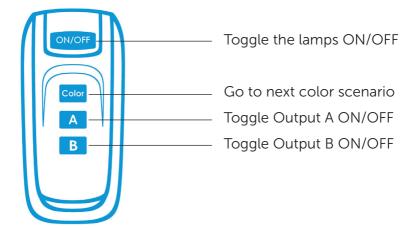
- 2. Within 25 seconds, press any button on the handheld transmitter.
 - --> If the transmitter is paired correctly, the LED will flash slowly for 5 times
 - --> If the PL-REM pairing memory is full, the LED will flash 15 times. This means 6 handheld devices have already been paired.

To unpair all handheld transmitters with the controller: Push the pairing button for at least 5 seconds, then do nothing for at least 25 seconds.

--> The pair memory will be erased - the red LED will flash 5x on/off.



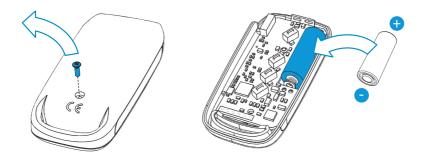
Handheld transmitter functions



Replacing transmitter battery

- Remove the philips head screw and open the transmitter
- Replace the battery, respecting the polarity

Battery type: A23 12V





Troubleshooting

PROBLEM		SOLUTION
The controller doesn't react to transmitter commands	•	Check the battery of the hand- held transmitter The transmitter is not paired- correctly with the controller. Repeat the pairing process Reduce the distance between handheld transmitter and PL- REM and/or remove obstacles
The pool lights don't work	•	Check if all connections are made according to the electri- cal scheme on page 5 or 6. Check if the "Color&Light" out- put terminals of the controller switch on and of when pushing the on/off button on the trans- mitter.

Declaration of Conformity

We, Propulsion Systems byba, declare under our sole responsibility, that the equipment described below conforms with the essential requirements of the following directives and standards:

DIRECTIVE 2011/65/EC (RoHs 2)

• EN50581

DIRECTIVE 1999/5/EC Radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity

• EN 300 220 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW

DIRECTIVE 2004/108/EC Electromagnetic compatibility

- EN 300 683 (Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for Short Range Devices (SRD) operating on frequencies between 9 kHz and 25 GHz)
- EN 301 489-3 (Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz)

Equipment: handheld transmitter/receiver for remote control & base unit transmitter / receiver 868MHz band DuraLink™

Trade Mark: SpectraVision™

Model Nr.: **Description:** PLA-REM (COMMUNICATIONS & REMOTE CONTROL BOX FOR ADAGIO+ RGB DuraLink™) PLA-REM-300 (350VA PSU & COMMS BOX FOR ADAGIO+ RGB DuraLinkTM) PL-REM (REMOTE CONTROL FOR MOONLIGHT & ADAGIO+ DuraLink™) PL-REM-P (REMOTE CONTROL FOR MOONLIGHT & ADAGIO+ (PULSED) DuraLink™) PL-REM-200 (200VA PSU & REMOTE CONTROL FOR MOONLIGHT & ADAGIO+ DuraLink™) TX868-PLA (TRANSMITTER ; DuraLink™ 868MHz ; for PLA-REM(-300)) TX868-PL (TRANSMITTER ; DuraLink[™] 868MHz ; for PL-REM(-60/200)) **Propulsion Systems byba** Dooren 72 B-1784 Belgium

Date of signature: 21/10/2014 Signature: Name: Dhr. Marc Lamberts Title: GM







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