Controller
for RGBW Color Changing Lights
with Digital Timer and Remote Control

Instructions for Operation
Safety • Warranty

Thank you for purchasing the controller for RGBW color changing lights from EasyPro. These controllers will power up to 2, 4 or 6 color changing LED lights depending on the model.

Controller Features and Includes

- Weatherproof with mounting holes
- Built in digital timer
- Remote control with 1000' range
- Built in voltage regulator for adequate voltage for lights up to 300' away
- 115 volt input with 24v DC output
- Pigtail with 5 pin receptacle and quick connect end.

Safety and Electrical Connections

1. **WARNING** Always disconnect the electrical supply before handling, maintaining, repairing or installing any pond equipment.

2. Do not open the controller. There are no serviceable parts inside the controller.

3. Connect the 110 volt plug of the RGBW controller/transformer to a 110 volt receptacle that is protected by a Ground Fault Circuit Interrupter.

4. Do not modify wiring in any way, quick plug ends must stay intact to function and should not be replaced with any other connections.

5. Do not use with swimming pools or spas.

6. Only connect to matching 5 pin RGBW cords, splitters and RGBW lighting fixtures.

7. All electrical work must be performed by a qualified technician. Always follow the National Electrical Code (NEC) or the Canadian Electrical Code as well as all local, state and provincial codes. Failure to follow manufacturer's installation instructions may result in electrical shock, fire hazard, personal injury or death, damaged equipment, provide unsatisfactory performance and will void manufacturer's warranty.

Setting the Timer

Mount the weatherproof controller box in a secure location near a power supply and plug into 110 volt outlet. The controller is weatherproof and does not need to be protected from the weather.

ⓟ	TIMER
D+	DAY
H+	HOUR
M+	MIN
⏰	CLOCK
C	RESET
MANUAL	MANUAL C/R
C/R	Cancel/recovery

Example Program Functions

Example Manual Functions

Programmable Timer Features

- Digital electronic time switch with daily programs
- Repeat programs with 16 on/off settings and manual override
- Lithium battery power reserve to keep time and programs even in power outage.
- Auto time error correction +/- 60 sec. weekly

Operation Instructions for Automatic Program Function

1. Plug controller into 110 volt GFCI protected outlet. Red light on timer will come on to indicate power is being supplied to lights. After timer settings are made, the red light only comes on during operation of programmed Auto "On" setting or when **ON** in Manual mode (see Manual Mode section).

2. Remove clear plastic cover from timer. Be sure not to lose this cover.

3. Unlock the timer by pressing the "C/R" button four times. This removes the "**a**" character in lower left corner of the display screen. If no keys are selected in 15 seconds, the time will automatically lock. Or once programming is finished press "C/R" button to lock.

4. To clear all programs, press the Reset button (labeled as 'c'). It is inset and will require a pen or small object to depress.

5. Once unlocked, set the time by pressing the button with the clock icon, then use D+ to set the day of the week, H+ to set the hour (uses military time only) and M+ to set the minute.

6. Up to 16 on/off settings can be programmed using the chart below.

Note: Set times in sequence as you may not cross set. System will auto lock with no activity or data saved within 15 seconds.

Step	Key	Programming
1	P	Setting 1 ON time (display 1 on)
2	H+/M+	Setting hours and minutes to turn on
3	D+	Daily selects same time or separate times
4	P	Setting 1 OFF time (display 1 off)
5	H+/M+	Setting hours and minutes to turn off
6	D+	If using the same time everyday, do not press
7	Repeat 2-6	Set 2-16 ON/OFF time
8	⏰	End
If you do not require 16 settings, press clock icon to the end		

Operation Instructions for Manual Function

1. Be sure the controller is plugged into 110 volt GFCI protected outlet.

2. Remove clear plastic cover from timer. Keep cover safe and replace when finished.

3. Unlock the timer by pressing the "C/R" button four times. This removes the "**a**" character in lower left corner of the display screen.

4. Press "Manual" button to select desired function. The **ON** function will tell controller to send power to lights and **OFF** function will stop power from being supplied to lights.

5. When pressing the "Manual" button it will scroll through settings in this order: **ON**, **AUTO**, **OFF**, **AUTO**.

Here is what happens at each setting and in this order

> **ON** – Power is supplied to the lights.
>
> **AUTO** - When using the "Manual" button and stopping on **AUTO** right after the **ON** setting, power to the lights will remain on until next programmed **OFF** setting.
>
> **OFF** – Power supply to the lights is turned off.
>
> **AUTO** – When stopping on **AUTO** after the **OFF** setting, power to the lights will be off and will turn back on at next programmed "On" setting.

Remote Control Operation
(remote control will come with controller)

To change settings and colors, use the unit's remote control. Controllers within the remote's 1000' range will be synchronized.

- Desired setting must be achieved by clicking remote functions of speed, mode, power or main colors. Depress buttons slowly and deliberately.

- Brightness settings only work with solid colors.

- Changing the speed of a light cycle will reset the mode to the beginning of its cycle.

- Remote requires an A23 battery (included)

- Remote control works only when red light of the timer is on. This is during Manual or Programed "On" functions.

⏻ **Power** ▶❙❙ **Reset Defaults**

S-/S+ Speed

B-/B+ Brightness

M-/M+ Color Mode

R Red   **G** Green

B Blue   **W** Warm White

Color Modes

1. (Default) Change — Red, Yellow/Green, Green, Cyan, Blue, Cool White, Yellow, Cool White, Purple, Cool White, Cyan, Cool White, Warm White, Orange

2. Change — Red, Green, Blue, Warm White

3. Change — Red, Green, Blue

4. Change — Warm White, Blue, Green, Red

5. Change — Red, Green, Blue, Warm White (several color cycles then accelerates to strobe)

6. Change — Red, off, Green, off, Blue, off, Yellow/Green, off, Purple, off, Cyan, off, Warm White, off

7. Change — Yellow/Green, Purple, Cyan

8. Change — Red, Yellow/Green, Warm White, off

9. Change — Warm White, Yellow/Green, Red, off

10. Change — Red, Green, Blue, Yellow/Green, Purple, Cyan, Warm White

11. Change – Demo Mode

12. Solid — Red

13. Solid — Green

14. Solid — Blue

15. Solid — Yellow/Green

16. Solid — Purple

17. Solid — Cyan

18. Solid — Warm White

Service and Maintenance

1. ⚠️ Disconnect the transformer from the power supply before service.

2. **WARNING** All parts of the lighting system should be checked on a regular basis to make sure the system is functioning properly.

3. All wires should be protected from possible damage from wildlife and other causes. Damaged wires due to neglect are not covered under warranty.

4. If light output is diminished check the face of the light fixture for debris and clean if necessary, or use remote control to increase brightness.

5. If lights are not working, be sure the timer on the controller is set to operate lights when desired.

6. Replace battery in the remote control if reaction to commands is slow or intermittent.