



STAGE 2

ADVANCED RECYCLING TIMER

TECHNICAL SPECIFICATIONS

Input Voltage	120V AC
Maximum Amperage	14.5 amps @ 120V AC
Sensor Cord Length	3 ft
Number of Recycling Timers	2 Separate Timers
Recycle ON Timer Range (x2)	1 second to 96 hours
Recycle OFF Timer Range (x2)	1 second to 96 hours

INSTALLATION:

1. Secure the controller to a wall.
2. Plug the power cable into a standard NEMA 5-15 wall outlet. A 120V power supply is required.
3. Ensure that all of the devices being connected to the controller have the proper voltage and will not exceed the maximum amperage rating.
4. Connect the devices to the controller using the outlets along the sides.

FACTORY SETTINGS:

The Stage 2 comes pre-programmed with the following factory settings...

Recycle #1 On Time Setting	1 minute
Recycle #1 Off Time Setting	30 minutes
Recycle #2 On Time Setting	1 minute
Recycle #2 Off Time Setting	30 minutes
Day/Night/24 Hour Mode	Day
Recycle Timer Mode	Stop

If at any time you wish to reset the controller to these factory settings, press and hold the **Enter/Reset** and **Down** arrow buttons for 3 seconds. The display will read **f.Set**. Press the **Enter/Reset** button again to restore the settings. When the reset is complete the screen will display **doNE**.

ABOUT THE STAGE 2:

The Stage 2 by LTL Controls is a multi-function recycling timer that operates with an extremely high level of accuracy, reliability, and precision all the way down to the individual second. The Stage 2 is actually 2 separate timers with 4 timer settings connected to 4 individual outputs. Both sets of timers have On and Off settings capable of controlling a pair of outputs. Each pair of outputs has a "normally open" or "normally closed" designation, allowing you to use each timer as a "flip-flop" timer, meaning you can operate 2 devices on opposite schedules for each timer.

The Stage 2 is designed to activate any device (pumps, fans, lights, etc.) at precise intervals, and it allows the user to select a Day, Night, or 24 Hour mode which the built-in photocell will automatically respond to.

For added convenience and customization, the Stage 2 also allows you to select how the timers will react in the event of a power interruption.

BUTTON FUNCTIONS:

The 13 buttons on the front of the Stage 2 control all its functions. Pressing each button will display a function and/or current setting in the green LED window. Some buttons perform more than one function.

Several small green LED lights or status indicators located on the front panel will light up to show the selected function when certain buttons are pressed.

Up Arrow - Increases the selected setting.

Down Arrow - Decreases the selected setting.

Enter/Reset - Locks in desired settings and can be used to reset certain settings.

Recycle Timer #1:

Recycle On Time - Use this button to set Timer #1's On Time. The On Time determines how long the "normally open" recycle output will be turned on for. During this time the "normally closed" output will be off. It can be set in hours, minutes and seconds.

Recycle Timer #1 Cont'd

Recycle Off Time - Use this button to set Timer #1's Off Time. The Off Timer determines how long the "normally open" recycle output will be turned off for. During this time the "normally closed" output will be powered on. It can be set in hours, minutes and seconds.

Day/Night/24 Hour - Use this button to set the operation mode of Timer #1. It can be set to activate only during the daytime, only during the nighttime, or 24 hours using the built-in photocell.

Recycle Timer Mode - Use this button to select how Timer #1 reacts when there is a power interruption. Choose between Stop or Continuous mode. Continuous mode will cause the timer to rely on its internal battery during a power interruption and it will continue to count down. When power is restored the devices will power on according to the current countdown. If Stop mode is selected, the timer will stop counting down until power is restored, and then it will pick up right where it left off (just before the power interruption).

Override Recycle Timer - Press and hold for 2 seconds to run a manual test and the recycling output will be activated and the timer will count down the On time. When the timer counts all the way down, the timer will return to the current saved settings and resume normal operation. To end the test early, press the button again.

Recycle Timer #2

Recycle On Time - Use this button to set Timer #2's On Time. The On Timer determines how long the "normally open" recycle output will be turned on for. During this time the "normally closed" output will be off. It can be set in hours, minutes and seconds.

Recycle Off Time - Use this button to set Timer #2's Off Time. The Off Timer determines how long the "normally open" recycle output will be turned off for. During this time the "normally closed" output will be powered on. It can be set in hours, minutes and seconds.

Day/Night/24 Hour - Use this button to set the operation mode of Timer #2. It can be set to activate only during the daytime, only during the nighttime, or 24 hours using the built-in photocell.

Recycle Timer Mode - Use this button to select how the Timer #2 reacts when there is a power interruption. Choose between Stop or Continuous mode. Continuous mode will cause the timer to rely on its internal battery during a power interruption and it will continue to count down. When power is restored the devices will power on according to the current countdown. If Stop mode is selected, the timer will stop counting down until power is restored, and then it will pick up right where it left off (just before the power interruption).

Override Recycle Timer - Press and hold for 2 seconds to run a manual test and the recycling output will be activated and the timer will count down the On time. When the timer counts all the way down, the timer will return to the current saved settings and resume normal operation. To end the test early, press the button again.

CHANGING THE SETTINGS:

Recycle On Time Setting:

To adjust this setting press the **Recycle On Time** button and it will display the current setting. The first 2 digits blinking are the hours, use the **Up** and **Down** buttons to change the hours and press the **Enter/Reset** button to accept. Next the center 2 digits will be blinking, these are the minutes digits. Use the **Up** and **Down** arrows to adjust and press **Enter/Reset** to accept. The last set of blinking digits represents the seconds. Use the **Up** and **Down** buttons to adjust, and press **Enter/Reset** to accept the new setting.

Recycle Off Time Setting:

To adjust this setting press the **Recycle Off Time** button and follow the same instructions for the On Time (shown above).

Day/Night/24 Hour

Press and hold for 2 seconds and the current mode will be displayed on the screen. Use the **Up** and **Down** buttons to adjust the setting and press **Enter/Reset** to accept.

Recycle Timer Mode

Press this button once and the current setting will be displayed (continuous or stop). Use the **Up** and **Down** buttons to adjust, and press **Enter/Reset** to accept the setting.

TROUBLESHOOTING:

1. The timer is not keeping time correctly...

The internal timer battery may need to be replaced. The included lithium CR1220 3V battery has an average life of 5 years.

2. The controller is not receiving power...


Reset your power switch and/or circuit breaker. If the problem continues reduce the number of devices connected to the controller or use a power multiplier to control devices with larger amperage.

If you have any additional problems please contact your local retailer.

IMPORTANT MESSAGE

1. Save these instructions. These safety and operating instructions must be kept in a safe place for future reference.
2. Heed all warnings. All warnings on this product and in these instructions must be observed closely.
3. Follow all instructions. All operating instructions must be followed.
4. If the instructions as provided by the manufacturer are not followed, damage to the product may result.
5. **Install your controller at least 8 ft away from any devices that produce large amounts of electronic noise, such as electronic ballasts or ozone generators.**




6. The  symbol on the enclosure indicates that the receptacle beside it may have an output voltage, which can be dangerous. The output voltages are the same as the input voltage. This receptacle can only be inserted with standard SHUKO OR UK plugs. Don't insert any other plug in it.
7. Do not use this controller near water. For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc. The controller must not be exposed to dripping or splashing liquid and no objects filled with liquid, such as vases, should be placed on this product. The product is not water-proof, or shock-proof.
8. Any factory serviceable parts of the product can only be checked or replaced by the manufacturer or authorized agencies. An unauthorized person is NEVER allowed to open the enclosure.
9. If the power cable insulation is broken, please stop using the product! Immediately unplug the it and contact the retailer you purchased it from.
10. The product is equipped with a circuit breaker for short circuit or over current situations. The circuit breaker will automatically shut down the unit. All outlets on the controller all have the safety ground.
11. Do not install the enclosure near any heat source.
12. Do not block any ventilation openings.
13. This product is a Safety Class 1 Controller. The main plug should be inserted in a power socket outlet only if provided with a protective earth contact. Any interruption of the protective conductor inside or outside of the product is likely to make the product dangerous and is prohibited.

MESSAGE IMPORTANT

1. Conservez ces instructions. Ces consignes de sécurité et d'exploitation doivent être conservées dans un endroit sûr pour référence future.
2. Respectez tous les avertissements. Tous les avertissements sur ce produit et dans les instructions doivent être observés de près.
3. Suivez toutes les instructions. Toutes les instructions doivent être suivies.
4. Si les instructions fournies par le fabricant ne sont pas suivies d'endommager le produit peut entraîner.

5. Installez votre contrôleur au moins 8 pieds loin de tous les appareils qui produisent de grandes quantités de bruits électroniques, tels que les ballasts électroniques ou des générateurs d'ozone.



6.  Le symbole sur le boîtier représente que le réceptacle à côté il peut avoir une tension de sortie, qui peut être dangereux. Les tensions de sortie sont les mêmes que la tension de tension d'entrée. Cette prise ne peut être insérée à la norme NEMA 1-15P et NEMA 5-15P bouchons. Ne pas insérer d'autres plug en elle.
7. Ne pas utiliser ce contrôleur près de l'eau. Par exemple, près d'une baignoire, baignoire lavabo, évier de cuisine ou la lessive, dans une cave humide, ou près d'une piscine, etc. Le contrôleur ne doit pas être exposé à des éclaboussures et aucun objet rempli de liquides, tels que des vases, doit être place sur ce produit. Le produit n'est pas étanche à l'eau, ou antichoc.
8. Toutes les pièces d'usine Paré réparable du produit ne peut être vérifiée ou remplacée par le fabricant ou autoriser les agences. Une personne non autorisée n'est jamais permis d'ouvrir le boîtier.
9. Si l'isolation du câble d'alimentation est cassée, s'il vous plaît arrêtez d'utiliser le produit! Débranchez immédiatement l'appareil et contactez le revendeur vous l'avez acheté.
10. Le produit est équipé d'un disjoncteur pour un court-circuit ou sur des situations actuelles. Le disjoncteur se fermera automatiquement le produit à la fois. Toutes les sorties du produit ont tous la terre de sécurité.
11. Ne pas installer l'enceinte à proximité de toute source de chaleur.
12. Ne pas bloquer les ouvertures de ventilation.
13. Ce produit est une classe de sécurité 1 contrôleur. La fiche principale doit être insérée dans une prise électrique que s'ils sont fournis avec un contact de terre de protection. Toute interruption du conducteur de protection à l'intérieur ou à l'extérieur du produit est susceptible de rendre le produit dangereux et est interdit.

Limited Warranty

DL Wholesale Inc. doing business (collectively DL) warrants that for a period of three years from the date of purchase, this product will be free from defects in material and workmanship. DL, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty. DO NOT attempt to repair or adjust any electrical or mechanical malfunctions on this product. Doing so will void this warranty and may cause serious injury/death/damage.

This warranty is valid for the original retail purchaser from the date of the initial retail purchase and it not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. DL dealers, distributors, service centers and retail outlets selling DL products do not have any right to alter, modify or in any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, use contrary to any and all applicable local, state, provincial or federal laws, disassembly, repair or alteration by anyone other than DL or an DL authorized service center. Future, the warranty does not cover: Acts of God, such as fire, flood, hurricanes, tornadoes, nor Acts of War or Acts of Terrorism.

THIS PRODUCT CONFORMS TO USA AND CANADA STANDARDS AS LISTED BELOW



ETL LISTED
CONFORMS TO
UL STD 61010-1

CERTIFIED TO
CAN/CSA STD
C22.2 No. 61010-1



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