



# LTL HUMIDITY HUMIDITY CONTROLLER

## ABOUT THE LTL HUMIDITY:

The LTL Humidity by LTL Controls is a water-resistant humidity controller with a built-in photocell which allows the user to set separate Day and Night humidity levels. This controller can be used with a humidifier or dehumidifier to either lower or raise the humidity level within the growing area.

## TECHNICAL SPECIFICATIONS

Input Voltage	120V AC
Maximum Amperage	14.5 amps @ 120V AC
Humidity Control Range	20 - 90% rH
Separate Day & Night Settings	Controlled by Photocell
Humidity Accuracy	+/- 5% rH
Humidity Deadband	5% rH

## INSTALLATION:

1. Plug the controller into a standard NEMA 5-15 wall outlet. A 120V power supply is required. For permanent installations, the mounting hole on the top of the unit can be used so secure it to a wall. This controller is water resistant, however it is not water-proof, so do not install it anywhere it will come in contact with water.
2. Ensure that the device being connected to the controller has the proper voltage and will not exceed the maximum amperage rating.
3. Connect the device to the controller using the outlet on the front.

**Note: If you are attempting to control multiple devices, a power expansion module can be used to increase the total amount of power that can be controlled.**

## DO NOT EXCEED THE MAXIMUM RATING!

## SETTING THE MODE:

Before using this unit you must decide if this controller will be used with a humidifier or a dehumidifier, and program the controller accordingly. Ensure the controller is powered on before setting the mode.

### Dehumidify Mode

Use this mode if you are connecting a dehumidifier which will lower the humidity level. Rotate both Day and Night knobs fully COUNTERCLOCKWISE. After several moments the LEDs on the front of the controller will start to flash. Once they stop flashing the RH- LED should remain on, and the others will turn off. This indicates the controller has been set to Dehumidify Mode.

### Humidify Mode

Use this mode if you are connecting a humidifier which will increase the humidity level. Rotate both Day and Night knobs fully CLOCKWISE. After several moments the LEDs on the front of the controller will start to flash. Once they stop flashing the RH+ LED should remain on, and the others will turn off. This indicates the controller has been set to Humidify Mode.

## SETTING THE HUMIDITY LEVELS:

Once the mode of operation has been set, you may now set the Day and Night humidity levels using the knobs. The built-in photocell will detect the ambient lighting level and activate the Day/Night modes appropriately. After programming the settings in, if the humidity level rises above or below the set points (depending on whether humidifying or dehumidifying), the controller will activate the connected device, and that device will remain on until the humidity level is raised or lowered by 5% rH above or below the set points. For example, if you are using the controller with a dehumidifier, and the Day humidity setting is 80%, if the humidity rises above 80% the controller will activate the dehumidifier and it will remain on until the humidity lowers to 75%. When using a dehumidifier the set points indicate the maximum humidity level. When using a humidifier the set points indicate the minimum humidity level.

**Note: Whenever the connected device is activated, the Output On LED will illuminate.**

## TROUBLESHOOTING:

### 1. Is the photocell working...?

During the daytime the green LED on the top right edge of the controller labeled Daytime will illuminate. During the night this LED will be off. The LED has a 30 second delay when switching between Day and Night.

### 2. Can I connect more than one device to the controller...?

Yes, as long as the total amperage of the devices does not exceed the maximum amperage rating of the controller. It is recommended to keep the total amps at or below 75% of the total rating.

### 3. The humidity does not seem to be correct...

The sensor on the controller is located on the bottom of the unit in the protective plastic "cage." Make sure the unit is not being affected by other factors such as direct sunlight exposure or areas that may not have good air movement.


### 4. The controller isn't powering on...

Ensure that the controller is fully inserted into the power outlet. Test the controller using a power outlet that is confirmed to be working. If it still does not power on and the LEDs do not illuminate, contact the retailer you purchased the controller from.

## 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 inséré 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



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