



LTL SPEED

FAN SPEED CONTROLLER

ABOUT THE LTL SPEED:

The LTL Speed by LTL Controls is a water-resistant fan speed controller with a built-in temperature gauge and photocell. This controller will adjust the speed of a connected fan based on the temperature of the room. The built-in photocell also allows the user to customize how the controller reacts to low temperatures depending on the time of day.

TECHNICAL SPECIFICATIONS

Input Voltage	120V AC
Maximum Fan Amperage	4.5 amps @ 120V AC
Temperature Control Range	45°F to 95°F
Fan Idle Speed	Adjustable (25 - 75%)
Temperature Accuracy	+/- 1.5°F

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 to 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 is capable of running on a variable fan speed controller (contact fan manufacturer if necessary) and 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: The fan must maintain sufficient speed/torque to prevent it from stalling. A motor not turning, making noises, or straining will overheat and damage the fan and the controller. If the fan motor seems to be straining or vibrating noisily, increase the idle speed setting until the vibration stops.

DO NOT EXCEED THE MAXIMUM RATING!

SETTING THE IDLE MODE:

Before using this unit you must decide how you would like the controller to react to low temperatures. The LTL Speed has the capability to shut off the connected fan completely if the temperature drops 10°F below your desired temperature set point (to avoid low temperatures), or you can choose to keep the fan running at the selected idle speed. Please ensure the fan is connected to the controller and the controller is receiving power before setting the mode.

Continuous Idle Run Mode

This mode will keep the fan operating at the idle speed even in the event of low temperatures. The controller will not turn the fan off. Rotate both Temp and Idle Speed knobs fully COUNTERCLOCKWISE. After several moments the LEDs on the front of the controller will start to flash. Once they stop flashing the red LED should remain on, and the others will turn off. This indicates the controller has been set to Continuous Idle Run Mode.

Night Low-Temp Mode

This mode will allow the controller to power off the connected fan if the temperature drops 10°F below the temperature set point ONLY during the nighttime (detected by the built-in photocell). Rotate both Temp and Idle Speed knobs fully CLOCKWISE. After several moments the LEDs on the front of the controller will start to flash. Once they stop flashing the yellow LED should remain on, and the others will turn off. This indicates the controller has been set to Night Low-Temp Mode.

24 Hour Low-Temp Mode

This mode will allow the controller to power off the connected fan if the temperature drops 10°F below the temperature set point at any time during the day or night. Rotate the Temp knob fully COUNTERCLOCKWISE and the Idle Speed knob fully CLOCKWISE. After several moments the LEDs on the front of the controller will start to flash. Once they stop flashing both the red and yellow LEDs should remain on. This indicates the controller has been set to 24 Hour Low-Temp Mode.

SETTING THE TEMPERATURE & IDLE SPEED:

Using the Temp knob, select the temperature you would like the controller to maintain. Using the Idle Speed knob, select the minimum speed you would like the fan to operate at when the growing area is maintaining the desired temperature set point. As the temperature rises in the growing area the controller will increase the speed of the fan in an effort to lower the temperature. If the temperature falls below the set point the controller will either power off the fan or continue running it at the idle speed, depending on the selected mode (see previous page).

Note: Whenever the connected fan 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...?

NO. The LTL Speed is designed to control ONE fan capable of being controlled by a variable speed controller. Contact the manufacturer of the fan to determine if it is compatible.

3. The temperature does not seem to be correct...

The temperature 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.

5. The LEDs are flashing rapidly...

The unit may have been overloaded. Disconnect the controller from power for 15 seconds, then re-connect it. Also, the red and yellow LEDs will flash for a short period of time during the mode selection process. This is normal.

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 récipient 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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