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Luxbird LTC-318-W

LUXBIRD LTC-318-W WiFi Temperature & Humidity Controller

User Instruction Manual

1. INTRODUCTION

The LUXBIRD LTC-318-W is an advanced WiFi-enabled temperature and humidity controller designed for precise environmental management. This device features a split design, separating the display monitor from the power outlet, and offers dual-zone control for both temperature (heating/cooling) and humidity (humidifying/dehumidifying). With app connectivity, users can monitor and adjust settings remotely, ensuring optimal conditions for various applications such as grow tents, greenhouses, and reptile terrariums.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Split Design:** Separates the monitor from the outlet for flexible placement and easy viewing.
- **Dual-Zone Control:** Independently manages temperature and humidity with two separate output sockets.
- **WiFi Connectivity:** Remote monitoring and control via a dedicated mobile application.
- **Multiple Operating Modes:** Constant, Manual, Timer, and Cycle modes to suit diverse needs.
- **High Accuracy Sensors:** Includes a calibratable temperature probe and a humidity probe.
- **Data Logging:** Tracks environmental changes with cloud-based data viewing and local export.
- **Safety Features:** Power-off memory function, startup delay, and UL-certified cable.

2.2 Components

The LUXBIRD LTC-318-W package includes the following components:

- **Monitor:** Digital display unit (3.7 inches) with control buttons.
- **Smart Socket:** Power outlet unit with two independent sockets.
- **Temperature Probe:** For accurate temperature measurement.
- **Humidity Probe:** For accurate humidity measurement.
- **USB-C Cable:** For connecting the monitor to the smart socket.
- **AA Batteries (2):** For backup power to the monitor.

LUXBIRD

LTC-318-W WIFI Separated Temperature and Humidity Controller

- Remote Control
- 12-stage Time Control
- Temperature and Humidity Control
- Historical Record
- Smart Alarms
- Power-off Memory



Figure 1: Main components of the LUXBIRD LTC-318-W controller. The image displays the monitor, smart socket, temperature probe, humidity probe, and USB-C cable with their respective dimensions and connections.

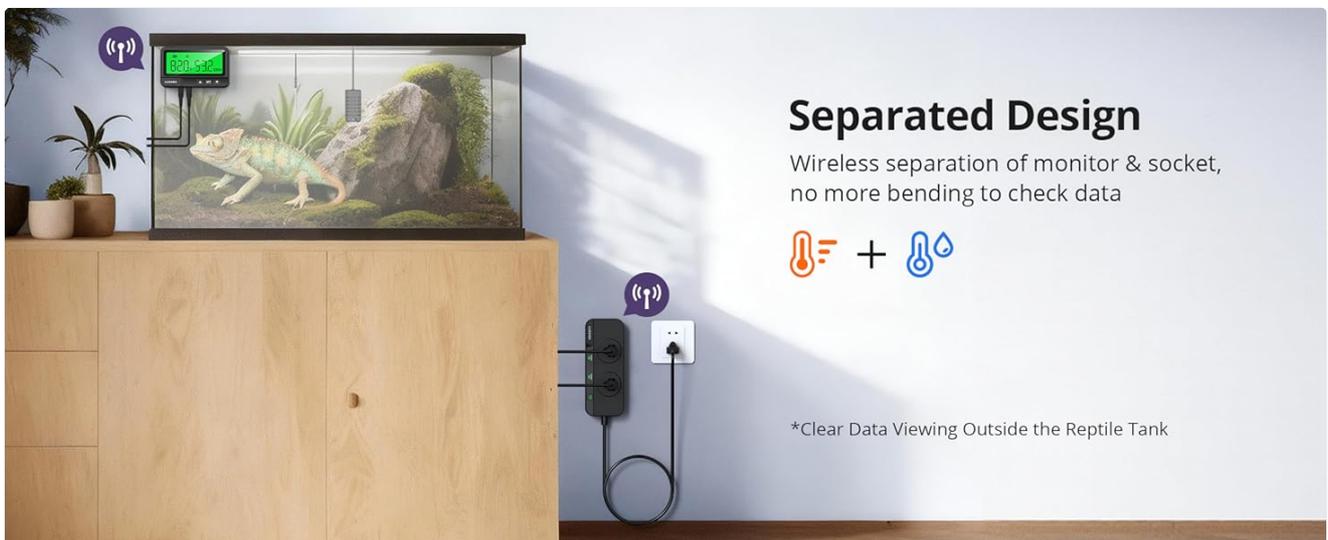


Figure 2: The separated design allows the monitor to be placed in an easily viewable location, while the power socket remains near the controlled equipment. This enhances user convenience by eliminating the need to bend down to check data.



Figure 3: The controller features a dual-sensor design for simultaneous temperature and humidity tracking. It includes intelligent socket recognition, automatically identifying the probe type upon connection for precise sensing.

3. SETUP

3.1 Initial Connection

1. **Power Connection:** Plug the smart socket into a standard 120V AC power outlet.
2. **Monitor Connection:** Connect the USB-C cable from the smart socket to the monitor.
3. **Probe Connection:** Insert the temperature and humidity probes into their respective ports on the monitor. The device features intelligent recognition to detect the probe type automatically.
4. **Battery Installation:** Install 2 AA batteries into the monitor for backup power.

3.2 App Installation and Pairing

1. **Download App:** Search for the 'Smart Life' or 'Tuya Smart' app in your mobile device's app store (iOS or Android) and install it.
2. **Register/Login:** Open the app and register a new account or log in with an existing one.
3. **Add Device:** Follow the in-app instructions to add a new device. Ensure your mobile device is connected to a 2.4GHz WiFi network. The controller will enter pairing mode automatically or can be manually set to pairing mode as per the device's display instructions.
4. **Confirm Connection:** Once successfully paired, the device will appear in your app, allowing remote control and monitoring.

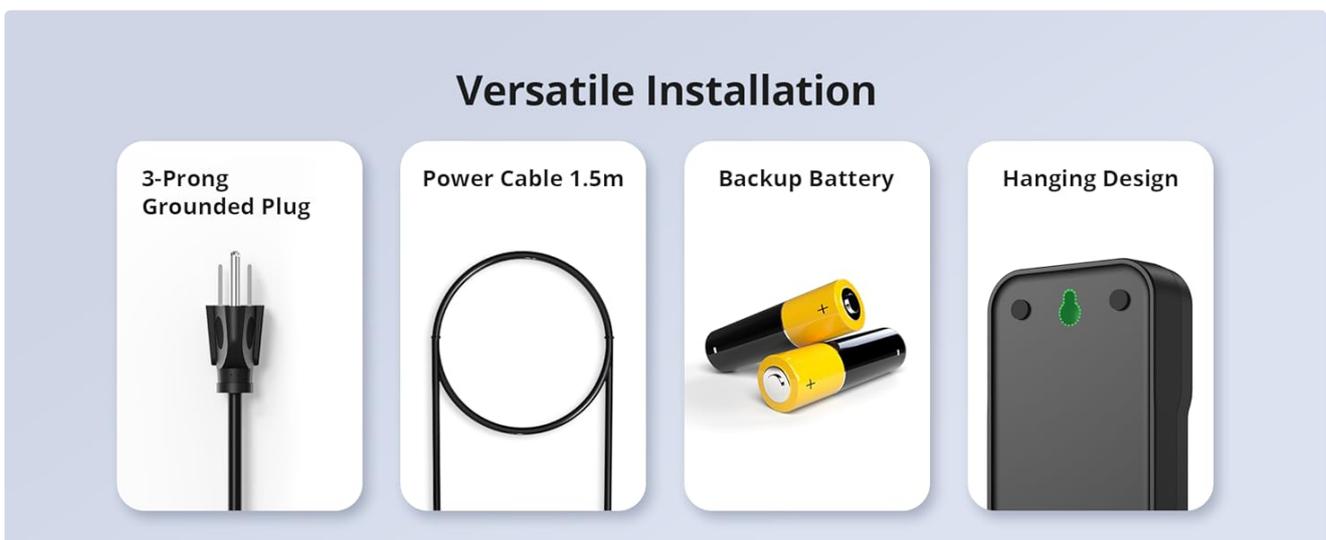


Figure 4: The controller offers versatile installation options, including a 3-prong grounded plug, a 1.5m power cable, backup battery support, and a hanging design for the monitor.

4. OPERATING MODES

The LUXBIRD LTC-318-W offers four distinct operating modes to manage your environment:

4.1 Constant Mode

In Constant Mode, the controller automatically maintains the environment within your preset temperature and humidity ranges. This mode is ideal for stable, continuous environmental control.

Constant Mode: Set It And Forget It

Automatically maintains the environment within your preset temperature and humidity range

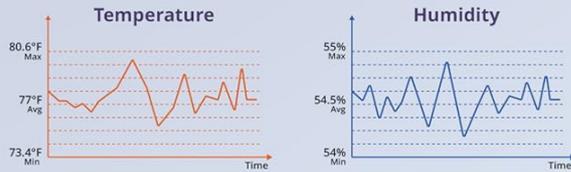


Figure 5: Constant Mode allows you to set a desired temperature and humidity range, and the controller will automatically work to maintain these conditions.

4.2 Timer Mode

Timer Mode allows you to schedule up to 12 periods, each with its own target temperature and humidity range. This is perfect for day/night cycles or specific growth stages requiring varied conditions.

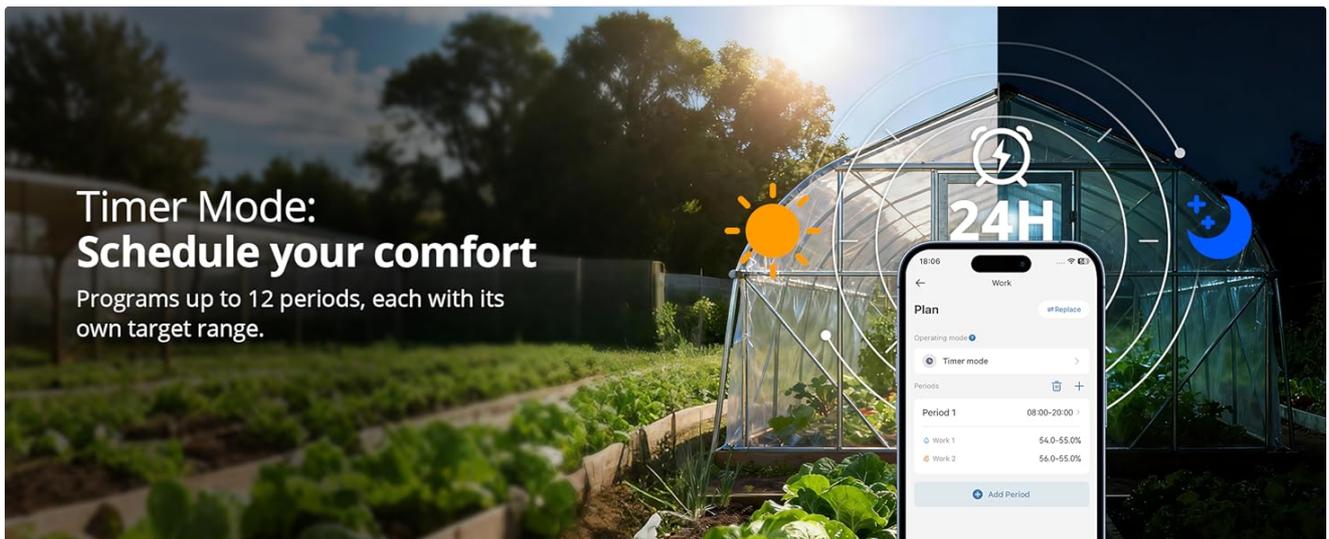


Figure 6: Timer Mode enables scheduling of up to 12 distinct periods, each with customizable temperature and humidity settings, ideal for managing environmental changes throughout the day or night.

4.3 Cycle Mode

Cycle Mode automates the device to cycle on and off based on a countdown timer. This is useful for intermittent operation of equipment, such as ventilation fans or humidifiers.

Cycle Mode: Automate The Rhythm

Sets the device to cycle on and off automatically based on a countdown timer

ON  OFF

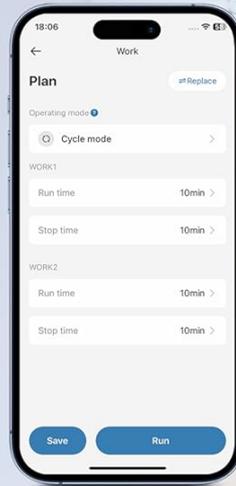


Figure 7: Cycle Mode allows you to set specific run times and stop times for connected devices, automating their on/off cycles based on a countdown timer.

4.4 Manual Mode

Manual Mode provides simple one-touch operation for immediate on/off switching of connected devices. This mode offers direct control when specific automation is not required.

Manual Mode: Take direct control

Simple one-touch operation for immediate on/off switching.



Figure 8: Manual Mode offers direct, one-touch control to switch connected devices on or off instantly, providing flexibility outside of automated schedules.

 +  | Heating & Humidifying



 +  | Cooling & Dehumidifying



Figure 9: The dual-socket control allows for simultaneous heating and humidifying, or cooling and dehumidifying, adapting to various environmental needs.

5. APP CONTROL & MONITORING

The mobile application provides comprehensive control and monitoring capabilities for your LTC-318-W controller.

5.1 Remote Control and Adjustments

Once paired, you can remotely view current temperature and humidity readings, change operating modes, and adjust settings from anywhere with an internet connection.

5.2 Data Tracking and Export

The app allows you to track environmental changes over time, offering 1 year of cloud-based data viewing and unlimited local data export. This feature is crucial for analyzing trends and optimizing your environment.

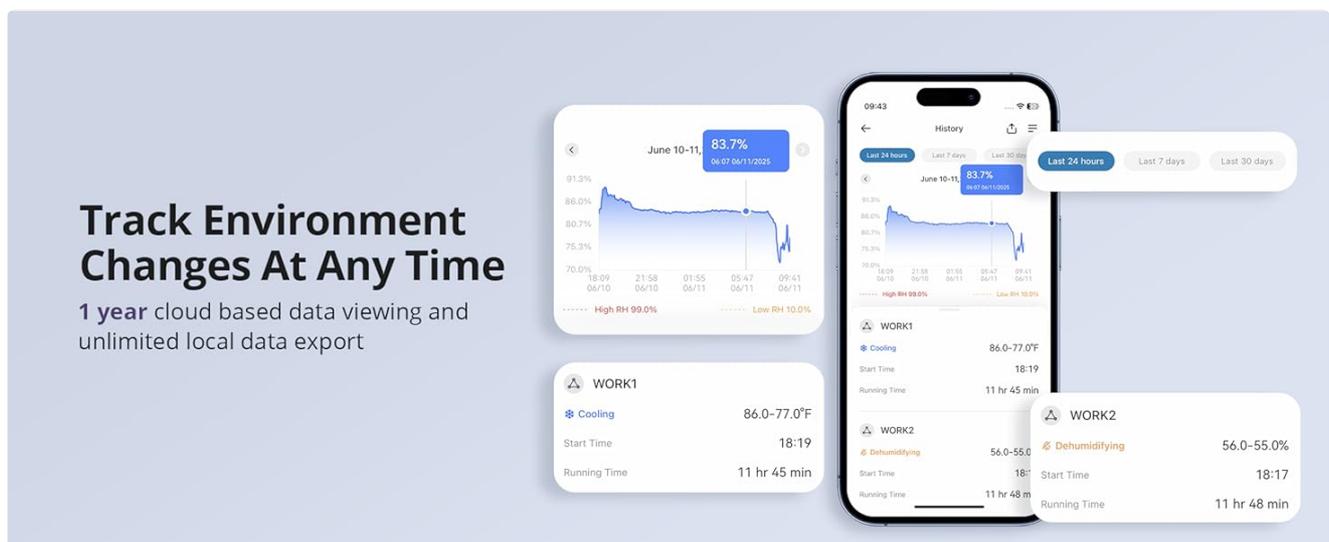


Figure 10: The app provides detailed historical data, allowing users to track temperature and humidity changes over 24 hours, 7 days, or 30 days, with options for local data export.

5.3 Alerts and Notifications

Set up custom alerts to receive instant notifications on your mobile device if temperature or humidity levels go outside your preset ranges. The device also features a buzzer alarm for immediate local alerts.



Figure 11: Real-time alerts protect your environment by sending instant notifications to your phone for any deviations in temperature or humidity, complemented by a device buzzer.

6. MAINTENANCE

6.1 Probe Care

- Keep probes clean and free from dust or debris to ensure accurate readings.
- Avoid submerging the humidity probe in liquids.
- The probes are replaceable, extending the lifespan of the controller.

6.2 Device Cleaning

- Wipe the monitor and smart socket with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.

6.3 Battery Replacement

- Replace the 2 AA backup batteries in the monitor when the low battery indicator appears.

7. TROUBLESHOOTING

7.1 No Power to Device

- Ensure the smart socket is securely plugged into a working power outlet.
- Check the USB-C connection between the smart socket and the monitor.
- Verify that the power outlet itself is functional.

7.2 Inaccurate Readings

- Ensure probes are clean and unobstructed.
- Avoid placing probes in direct sunlight or near heat/cold sources that do not represent the general environment.
- Consider calibrating the sensors if persistent inaccuracies are observed (refer to app settings for calibration options).

7.3 App Connectivity Issues

- Ensure your mobile device is connected to a 2.4GHz WiFi network during setup.
- Check that your WiFi router is functioning correctly and the signal strength is adequate where the controller is located.
- Restart the controller and attempt to re-pair with the app if connection is lost.
- Ensure the app is updated to the latest version.

7.4 Settings Not Saved After Power Outage

- The device has a power-off memory function. Ensure the backup batteries are installed and functional to maintain settings during brief power interruptions.



Figure 12: The controller features uninterrupted data and secure storage, automatically remembering settings during power outages and instantly restoring them when power resumes.

8. SPECIFICATIONS

Model	LTC-318-W
Brand	Luxbird
Humidity Control Range	5%RH ~ 99%RH
Temperature Control Range	-40°F ~ 212°F (-40°C ~ 100°C)
Temperature Accuracy	±2°C
Power Input	120V AC, 60Hz
Max Load	10A, 1200W
Monitor Screen Size	3.7 inches
Battery Type (Backup)	2 x AA batteries (included)
Smart Home Compatibility	Smart Home Compatible (via Smart Life/Tuya App)

9. WARRANTY AND SUPPORT

LUXBIRD products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact details provided on the official LUXBIRD website or the product packaging. Keep your purchase receipt as proof of purchase for warranty claims.



Figure 13: The LUXBIRD LTC-318-W is versatile and suitable for a wide range of environments, including grow tents, reptile enclosures, mushroom cultivation, and home brewing, providing precise control for diverse needs.