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ETURBEV XY-WT04

XY-WT04 High Temperature Digital Thermostat User Manual

Model: XY-WT04 | Brand: ETURBEV

1. Product Overview

The ETURBEV XY-WT04 is a high-precision digital thermostat designed for controlling high temperatures. It utilizes a K-type thermocouple for accurate temperature measurement and features a single-way relay switch output for controlling heating or cooling devices. Its compact design and wide temperature control range make it suitable for various industrial and scientific applications.



Figure 1: Front view of the XY-WT04 Digital Thermostat. The device features a clear digital display, control buttons (up, down, settings),

and a power button. The display shows "OUT" and temperature values in Celsius.



Figure 2: The XY-WT04 thermostat with its K-type thermocouple sensor connected. The thermocouple is a braided metal wire with a probe tip, designed for high-temperature measurements.

2. Specifications

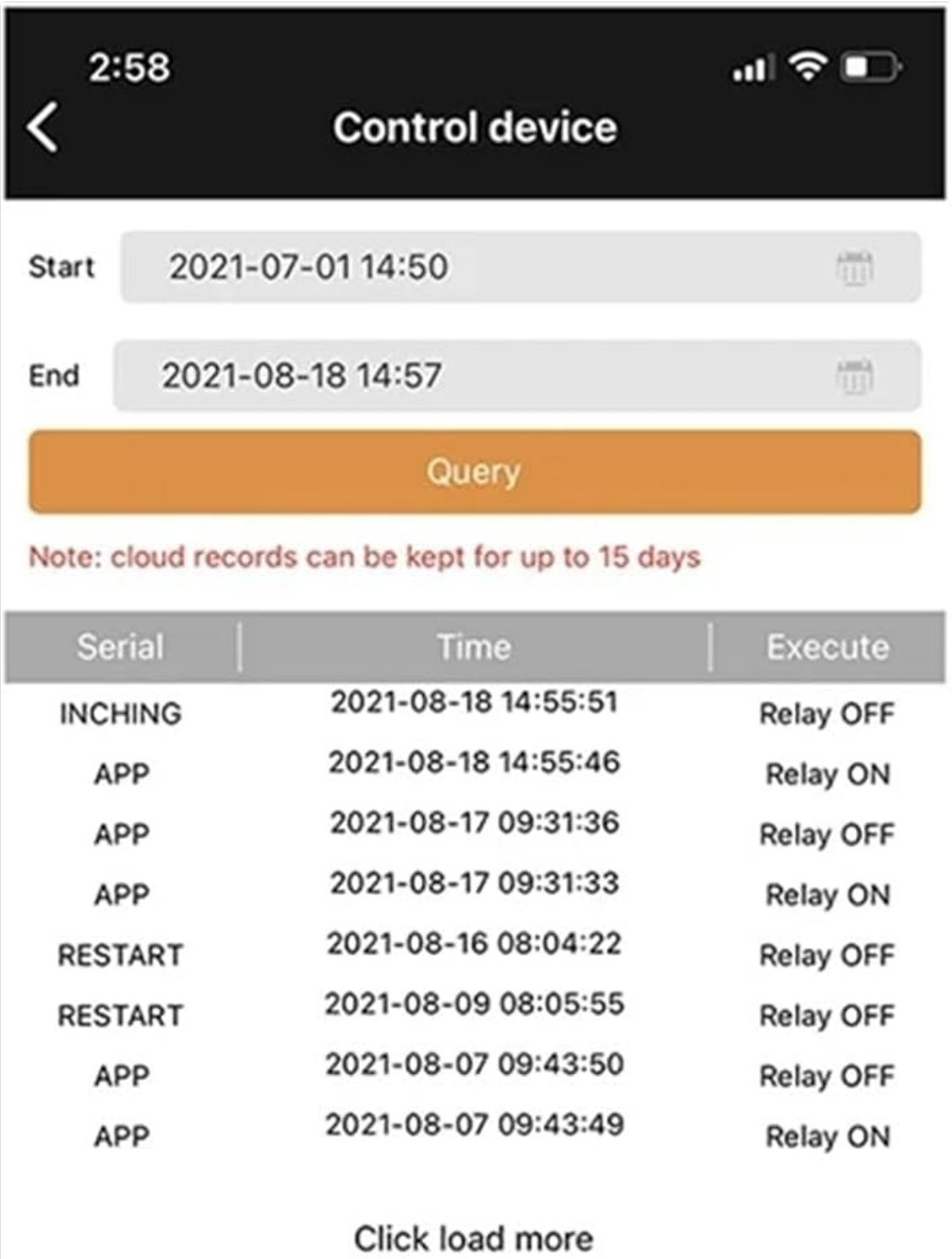




Figure 3: Visual representation of the product specifications, detailing key operational parameters.

Parameter	Value
Product Name	High Temperature Digital Thermostat
Model	XY-WT04
Supply Voltage	DC 6~30V
Temperature Control Range	-99~999°C
Measurement Input	K-type Thermocouple
Resolution	1°C
Temperature Measurement Accuracy	±2°C
Output Type	1-way Relay Switch
Maximum Control Current	10A or more
Dimensions (Approx.)	79 x 43 x 30mm
Item Weight	72 Grams (2.54 ounces)

3. Safety Information

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the supply voltage (DC 6~30V) matches the device's requirements. Incorrect voltage can damage the unit.
- Do not exceed the maximum control current of 10A for the relay output. Overloading can cause damage or fire.
- Install the device in a dry, well-ventilated area, away from direct sunlight, moisture, and corrosive gases.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Only use the specified K-type thermocouple for temperature measurement. Using other types may result in inaccurate readings or damage.

- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep out of reach of children.

4. Package Contents

Upon opening the package, please verify that all items listed below are present and in good condition:

- 1 x XY-WT04 High Temperature Digital Thermostat
- 1 x K-type Thermocouple Sensor
- (Optional) User Manual / Quick Start Guide (if included in physical package)

Note: Other products shown in promotional images are not included unless explicitly stated.

5. Setup and Installation

1. **Mounting:** Choose a suitable location for the thermostat, ensuring it is stable and protected from environmental extremes. The device is designed for panel mounting or enclosure integration.
2. **Power Connection:** Connect the DC 6~30V power supply to the designated power input terminals on the XY-WT04. Observe correct polarity (+ and -).
3. **Thermocouple Connection:** Connect the K-type thermocouple to the thermocouple input terminals. Ensure the positive and negative leads of the thermocouple are connected correctly to avoid inaccurate readings. The thermocouple typically has color-coded leads (e.g., red for negative, yellow for positive for K-type in some standards, but always verify with the thermocouple's documentation).
4. **Relay Output Connection:** Connect the device you wish to control (e.g., heater, fan) to the relay output terminals. This is a dry contact switch, meaning it provides a switched connection, not power. You will need to wire your load with an external power source through these contacts. Ensure the load's current draw does not exceed 10A.
5. **Initial Power On:** Once all connections are secure, apply power to the device. The digital display should illuminate, showing the current temperature.

6. Operating Instructions

The XY-WT04 features a simple interface for setting temperature parameters.

Basic Operation:

- **Power Button:** Press the power button (usually indicated by a circle with a vertical line) to turn the device on or off.
- **Up/Down Buttons:** Use the "Up" (▲) and "Down" (▼) buttons to navigate through settings or adjust values.
- **Set Button:** The "Settings" button (often a gear icon) is used to enter the parameter setting mode. Press it to

cycle through various adjustable parameters.

Setting Temperature Parameters:

Specific steps for setting parameters like target temperature, hysteresis, and operating mode (heating/cooling) will typically involve pressing the "Set" button and then using the Up/Down buttons to adjust values. Refer to the on-screen prompts or a detailed parameter list (if available in the physical manual) for precise configuration.
The display will typically show the current measured temperature and the set point or output status ("OUT").

7. App Connectivity (If Applicable)

Some versions of the XY-WT04 may support remote operation via a mobile application. If your device has this feature, follow the steps below for product networking and control.

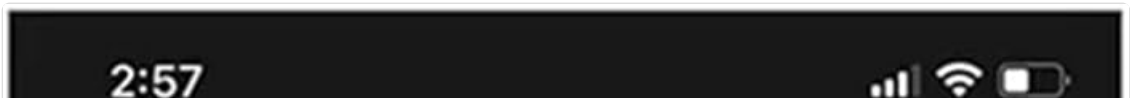


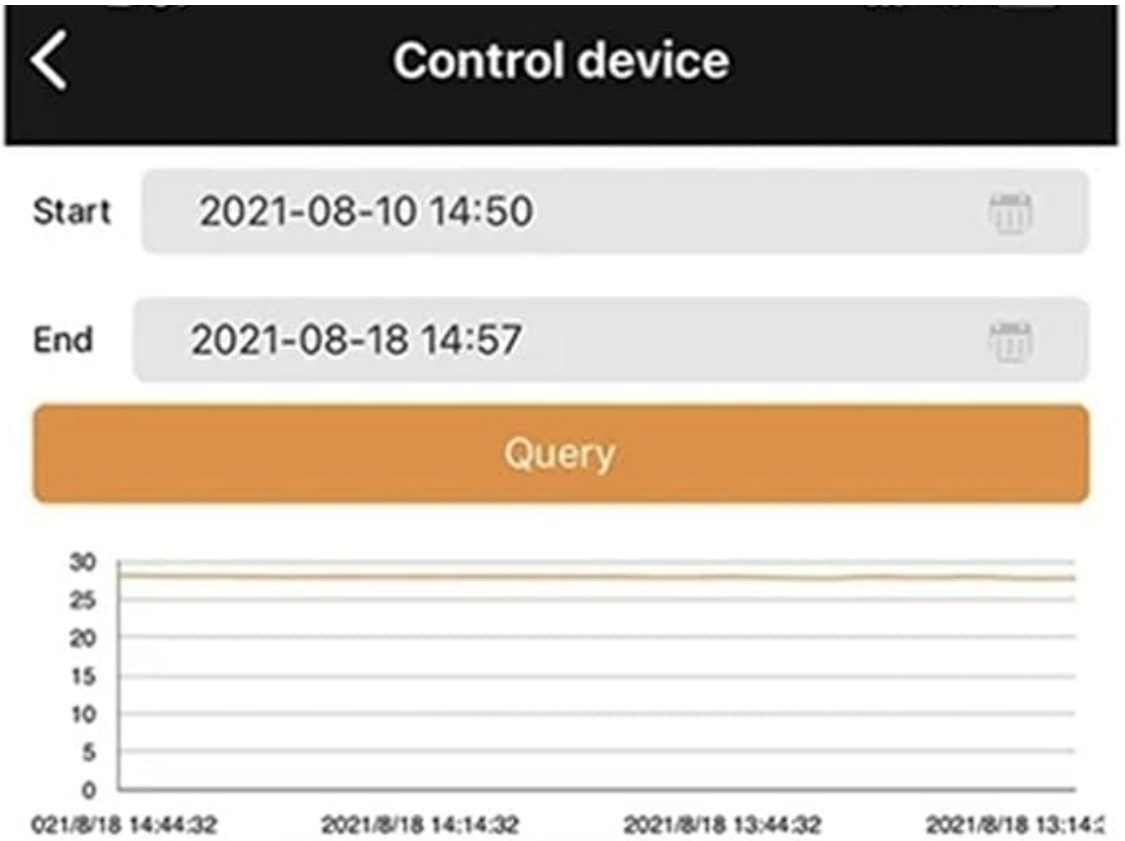


Figure 4: Product networking steps for app integration. This typically involves downloading the app, enabling Bluetooth/Wi-Fi, searching for the device, and connecting it to your network.



Figure 5: App interface displaying a log of control device events, showing timestamps and actions like "Relay ON" or "Relay OFF".





Serial	Time	Temp(°C)
1	2021-08-18 14:44:32	28.1
2	2021-08-18 14:39:32	28.0
3	2021-08-18 14:34:32	28.0
4	2021-08-18 14:29:32	27.9
5	2021-08-18 14:24:32	27.9
6	2021-08-18 14:19:32	27.9
7	2021-08-18 14:14:32	27.9
8	2021-08-18 14:09:32	27.9
9	2021-08-18 14:04:32	27.9
10	2021-08-18 13:59:32	27.9
11	2021-08-18 13:54:32	27.9
12	2021-08-18 13:49:32	27.8
13	2021-08-18 13:44:32	27.9
14	2021-08-18 13:39:32	27.8
15	2021-08-18 13:34:32	27.7

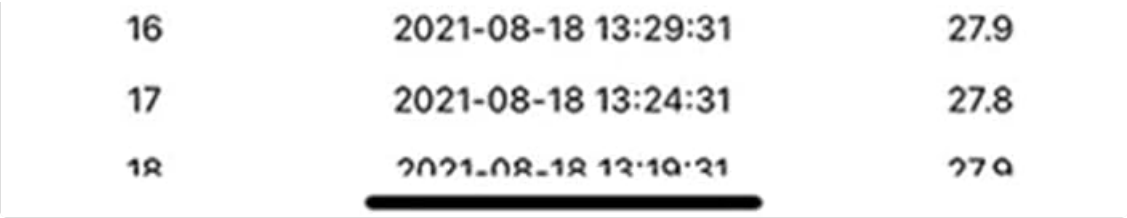


Figure 6: App interface showing historical temperature data in both graphical and tabular formats, allowing users to monitor temperature trends over time.

If your model supports app control, download the official ETURBEV app from your device's app store. Follow the in-app instructions for pairing and configuration. The app typically allows for remote monitoring, setting adjustments, and viewing historical data.

8. Maintenance

To ensure the longevity and accurate operation of your XY-WT04 thermostat, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Thermocouple:** Inspect the K-type thermocouple for any signs of damage, kinks, or wear. Replace if necessary to maintain measurement accuracy.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges.

9. Troubleshooting

If you encounter issues with your XY-WT04 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	No power supply; incorrect voltage; loose connections.	Check power source and connections. Ensure voltage is DC 6~30V.
Inaccurate temperature readings.	Incorrect thermocouple type; faulty thermocouple; improper thermocouple connection.	Ensure K-type thermocouple is used and connected correctly (polarity). Inspect thermocouple for damage.
Relay not activating/deactivating.	Incorrect temperature settings; faulty wiring to load; overloaded relay.	Verify set temperature and hysteresis. Check load wiring. Ensure load current is within 10A.
App connection issues.	Bluetooth/Wi-Fi off; incorrect pairing steps; app version outdated.	Ensure Bluetooth/Wi-Fi is enabled. Re-attempt pairing process. Update app to latest version.

If the problem persists after attempting these solutions, please contact customer support.

10. Warranty and Support

ETURBEV products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or replacement parts, please refer to the warranty card included with your purchase or visit the official ETURBEV website.
For direct assistance, you may contact ETURBEV customer service through the contact information provided on their official website or through your point of purchase.
Please retain your proof of purchase for warranty claims.

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