

PIKIS SA30-W

PIKIS SA30-W WIFI Remote Digital Thermostat User Manual

Model: SA30-W

1. PRODUCT OVERVIEW

The PIKIS SA30-W is a versatile WIFI remote digital thermostat designed for precise temperature control. It features a K-type thermocouple input and offers a wide temperature control range from -40°C to 110°C , complete with high and low-temperature alarm functions. This controller is ideal for various applications requiring accurate temperature management and remote monitoring.



Figure 1: Front view of the PIKIS SA30-W Digital Thermostat, showing the display, control buttons, and connected probe.

2. KEY FEATURES

- **High-Quality Components:** Constructed with durable, high-quality materials for reliable performance.
- **High Current Relay:** Equipped with a 10A/30A high current relay for robust power handling.
- **APP Remote Control:** Full-view high-definition display with convenient remote control via a mobile

application.

- **Alarm Notifications & Cloud Recording:** Receive alarm notifications and record data to the cloud for historical tracking.
- **Remote Firmware Updates:** Supports remote firmware upgrades for continuous improvement and new features.
- **Wide Application Range:** Suitable for various temperature control needs.
- **Buzzer Prompt & Backlight Control:** Additional functionalities for enhanced user experience.

AC110-220V 30A With Remote WIFI Control



Figure 2: The thermostat highlighting its AC110-220V 30A power capability and remote WIFI control feature.

HD full-view LCD display · One screen with three displays

Digital display is clearly visible, fearless of external environment changes



Figure 3: Close-up of the thermostat's HD full-view LCD display, showing clear visibility even in varying environments.

Internet control · Anytime anywhere

LAN penetrates real-time communication and remote control
of the external network is not limited to any distance

The alarm notifies the cloud to record remote firmware upgrades



Figure 4: Illustration of the thermostat's internet control capabilities, allowing real-time communication and remote control from anywhere via mobile app or web interface.

3. SPECIFICATIONS

Parameter	Value
Model	SA30-W
Input Power	AC110-220V
Output Type	1-way Relay Switch (Live output AC 110-220V)
Probe Model	10K NTC 3950B (Waterproof)
Probe Length	2 meters
Dimensions	79 x 43 x 25 mm

Parameter	Value
Net Product Weight	93 grams
Maximum Control Current	Within 30A
Temperature Control Range	-40°C to 110°C
Temperature Control Accuracy	0.1°C
Temperature Measurement Range	-40°C to 110°C
Additional Functionality	Buzzer prompt, Backlight control
Connection Protocol	Wi-Fi
Control Method	Remote

XY-ST/SA Comparison of product specifications

	XY-ST10/ST10-W	XY-ST30/ST30-W	XY-SA10/SA10-W	XY-SA30/SA30-W
Model				
Parameter				
Type of relay	10A relay	30A relay	10A relay	30A relay
Maximum control	current≤10A	current≤30A	current≤10A	current≤30A
Input power supply	DC 6-30V	DC 6-30V	AC 110-220V	AC 110-220V
Output type	1 relay switch output	1 relay switch output	Live output (AC 110-220V)	Live output (AC 110-220V)

Figure 5: Detailed comparison of product specifications across different PIKIS thermostat models, highlighting the SA30-W's capabilities.

4. SETUP AND INSTALLATION

Carefully follow these steps for proper setup and installation of your PIKIS SA30-W thermostat.

- Power Connection:** Connect the input power supply to the DC6-30V or AC110-220V terminals as indicated on the device. Ensure correct polarity for DC power.
- Probe Connection:**
 - Connect the NTC 10K waterproof temperature probe to the designated NTC terminals (VCC, GND).
 - If using an 18B20 digital sensor (not included by default), connect it to the 18B20 terminals (DQ, GND, 5V). Note that if an 18B20 sensor is connected, the device will automatically switch to using its temperature readings.
- Relay Switch Connection:** Connect the load (e.g., heating element, cooling device) to the relay switch terminals. The relay acts as a simple switch and does not provide live power output. Ensure the load's power requirements are within the maximum control current of 30A.

4. **WiFi Module Connection:** Connect the TTL communication interface of the thermostat to the WiFi communication module.

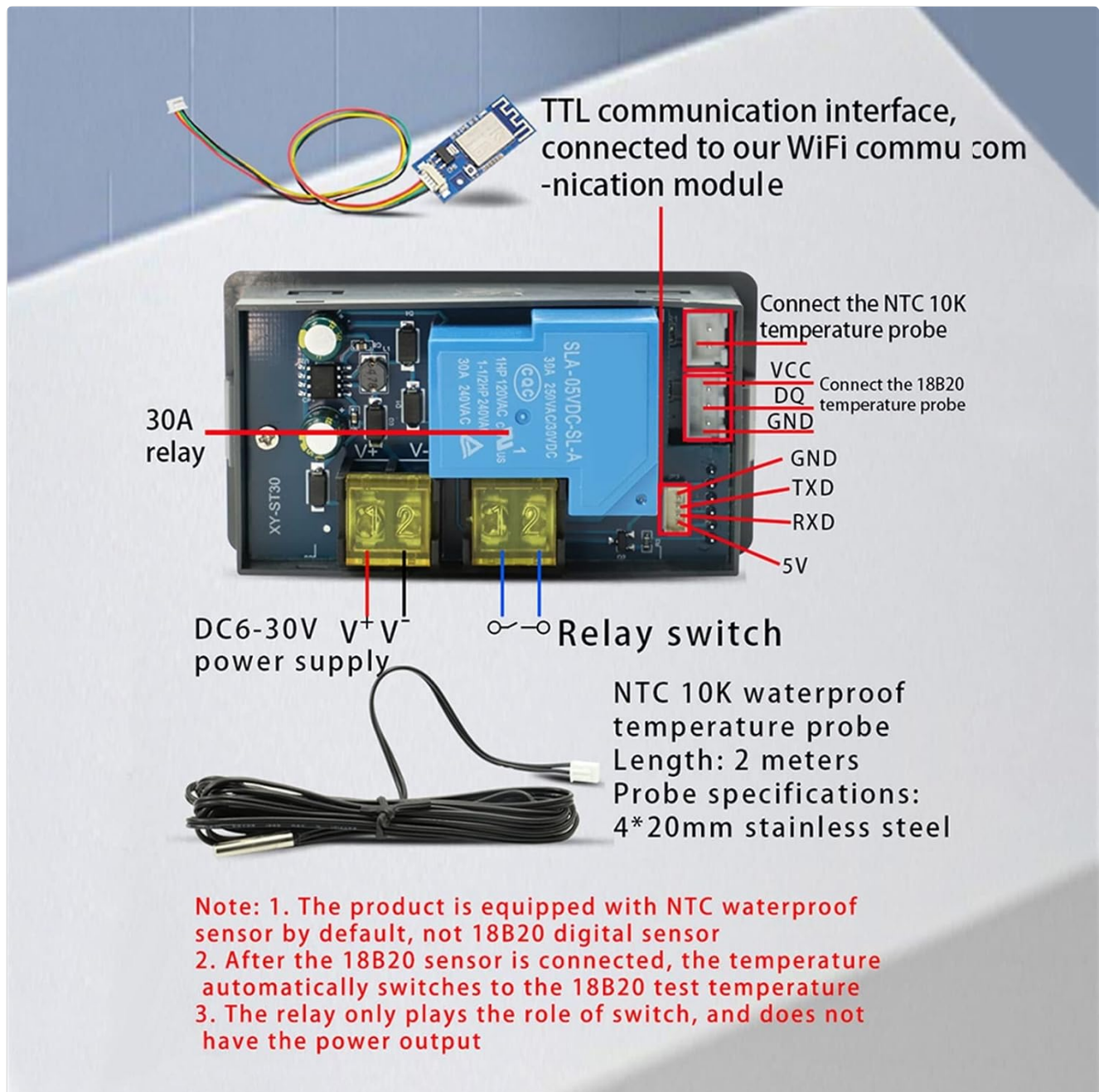


Figure 6: Detailed wiring diagram illustrating connections for power supply, NTC 10K temperature probe, 18B20 digital sensor, and the relay switch. Also shows the TTL communication interface for the WiFi module.

Important Notes:

- The product comes with an NTC waterproof sensor by default. The 18B20 digital sensor is not included.
- When an 18B20 sensor is connected, the temperature measurement will automatically switch to the 18B20 sensor's reading.
- The relay functions solely as a switch and does not provide live power output.

5. OPERATING INSTRUCTIONS

The PIKIS SA30-W can be controlled via its onboard buttons or through the dedicated mobile application.

5.1 Mobile APP Control

The mobile application provides comprehensive control and monitoring features. It supports both automatic and manual modes, along with emergency stop functions and timing delay cycles.

Mobile APP control interface

In automatic mode, with the emergency stop function, the work can be allowed in the specified time period;
Manual mode, the product seconds to become intelligent time control switch, support timing delay cycle;

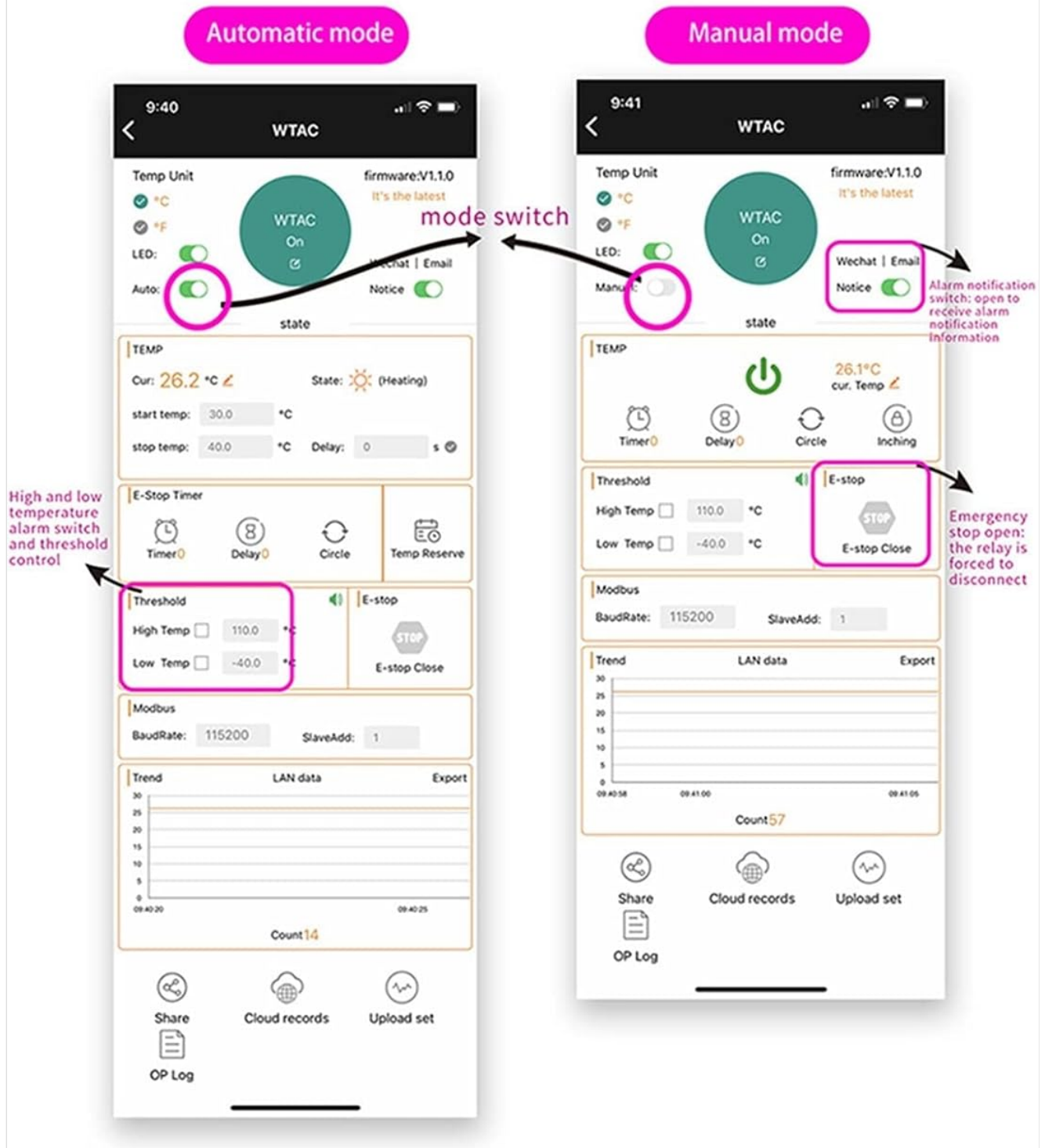


Figure 7: Screenshots of the mobile application interface, demonstrating the automatic mode (left) with threshold settings and the manual mode (right) for direct control. It also shows alarm notification settings and cloud record options.

- **Automatic Mode:** Set desired start and stop temperatures, and the device will automatically maintain the

temperature within the specified range. You can also configure emergency stop timers.

- **Manual Mode:** Directly control the relay switch. This mode supports intelligent time control and timing delay cycles.
- **Alarm Settings:** Configure high and low-temperature thresholds to receive notifications.
- **Cloud Recording:** View and upload historical temperature data to the cloud.
- **Firmware Updates:** Check for and apply remote firmware updates.

5.2 Onboard Button Control

Use the physical buttons on the device to adjust settings directly. Refer to the on-screen prompts for navigation and parameter adjustment.

6. MAINTENANCE

To ensure the longevity and optimal performance of your PIKIS SA30-W thermostat, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the device is powered off before cleaning.
- **Probe Care:** Keep the temperature probe clean and free from debris. Avoid bending or damaging the probe cable.
- **Storage:** If storing the device for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Firmware Updates:** Periodically check for and apply firmware updates via the mobile app to benefit from performance improvements and new features.

7. TROUBLESHOOTING (FAQ)

This section addresses common questions and issues you might encounter.

Q: How can I set the device to operate only during specific hours, for example, from 6:00 AM to 5:00 PM?

A: You can achieve this by adding an emergency stop timer. Set the emergency stop to close at 6:00 PM and open at 5:00 AM. This will effectively limit operation to your desired timeframe.

Q: Is it possible to set different target temperatures at different times, for example, 30°C at 6:00 AM and 50°C at 4:00 PM?

A: Yes, this is easily done using the temperature appointment function within the app. Simply add two separate appointment tasks for the desired temperatures and times.

Q: The device is not connecting to Wi-Fi. What should I do?

A: Ensure your Wi-Fi network is 2.4GHz. Check that the Wi-Fi module is correctly connected to the thermostat's TTL interface. Verify your Wi-Fi password and network stability. Try restarting both the thermostat and your Wi-Fi router.

Q: The temperature reading seems inaccurate.

A: Check if the temperature probe is properly connected and fully immersed in the medium being measured (if applicable). Ensure the probe cable is not damaged. If you have both NTC and 18B20 sensors connected, remember the device prioritizes the 18B20 sensor. Calibrate the sensor if an option is available in the app.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official PIKIS website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

- **Customer Service:** [Insert Manufacturer Contact Information or Website Link Here]
- **Online Resources:** [Insert Link to Online Manuals/FAQs if available]

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question