DIN500-WP

Technical Specifications:

- **Power Supply Voltage**: 120VAC (North America) and 220V (EU)
- **Output Power**: Max 120V
- **Output Current**: Refer to the rating of the supplied model.
- **Temperature Range**: Depends on Model No. -40°F to 1830°F (-40°C to 999.9°C) K type TC Or -40°F to 248°F (-40°C to 120°C) **NTC 10K**
- **Dimensions**: 200 mm x 120 mm x 100 mm

Product Settings via the App

1-Download the App

Download the free **Smart Life** or **Tuya Smart** APP and register an account with your cellphone number or email.

2-Pairing the Controller with Smart Life app

On the controller face, press and hold ▲ until the screen shows APP/ON. Then press and hold ▼ until the screen shows APP/--- (pairing mode). Open the app, tap Add Device (+), and follow the on-screen prompts.

3-APP Connection Tips

Connect your phone to the desired Wi-Fi network (2.4 GHz if prompted by the app).Enable Bluetooth on your phone.Enter the Wi-Fi password when asked and tap Next to complete pairing. After pairing, select Manual mode or Automatic mode in the app (Some functions will be different in Automatic and Manual mode). Use the items below to program and control the device.

1. Temperature Unit (°C / °F):

Tap the temperature unit option to switch between Celsius and Fahrenheit.

2. State (Working Status):

Shows whether the relay output is ON/OFF and whether the mode is Heating or Cooling.

3. Setting Temperature (ST) and Hysteresis (H)

Heating Mode:

Relay turns ON when Current Temp ≤ ST - H

Relay turns OFF when Current Temp ≥ ST

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Example: ST = 30.0°C, H = 5.0°C -> heating starts at 25.0°C and stops at 30.0°C.

Cooling Mode:

Relay turns ON when Current Temp ≥ ST + H

Relay turns OFF when Current Temp ≤ ST

Example: ST = 30.0°C, H = 5.0°C -> cooling starts at 35.0°C and stops at 30.0°C.

4. Timer (Timed Tasks):

Create scheduled start/stop actions on a 24/7 clock. Choose one-time or repeat schedules.

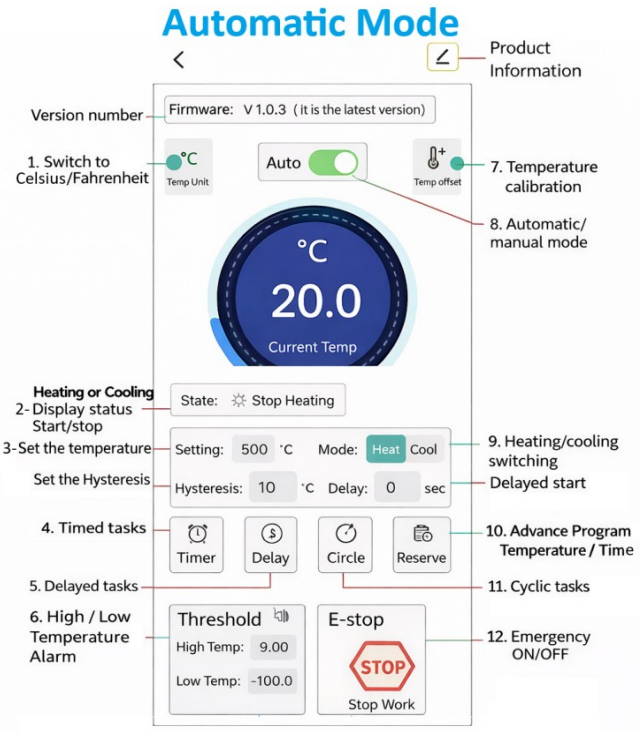
5. Delay (Delayed Tasks):

Set a delayed start or delayed stop (hours/minutes) when needed.

6. Threshold Alarms (High/Low Temperature):

High temperature alarm: disconnects the relay when the temperature exceeds the high limit and triggers an alarm.

Low temperature alarm: disconnects the relay when the temperature falls below the low limit and triggers an alarm.



7. Temp Offset (Temperature Calibration):

Use the offset to correct sensor deviation.

Corrected temperature = current temperature +/- (offset value).

8. Automatic / Manual Mode:

Choose the mode that matches your project. Manual mode provides direct control; Automatic mode uses set point and hysteresis control.

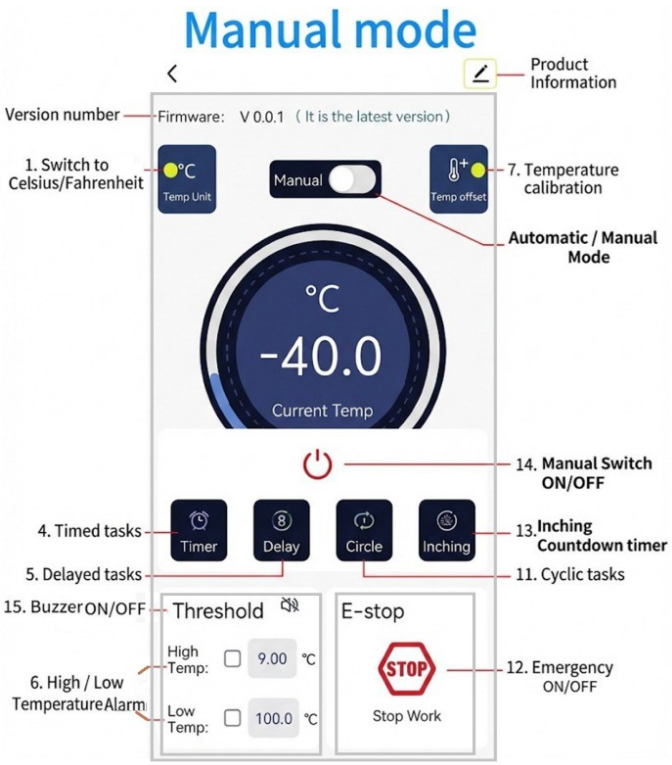
9. Heating/Cooling Switching and Delayed Start:
Switch between Heat and Cool modes. If needed, set a start delay in seconds.
10. Reserve (Advanced Program):
Create multiple steps with different times, temperatures, and hysteresis values (one-time or repeat). This is useful for multi-stage heating/cooling profiles.

Example program:
•Task 1: 2025-03-24 18:30 | Mode: Heat | Set: 200°F | Hys: 5°F
•Task 2: 2025-03-24 18:50 | Mode: Heat | Set: 180°F | Hys: 5°F
•Task 3: 2025-03-24 19:00 | Mode: Heat | Set: 60°F | Hys: 5°F

Result: heat to 200°F for 20 minutes, then cool to 180°F for 10 minutes, then cool to ambient (60°F).
11. Circle (Cyclic Time Tasks):
Create repeated cycles with run time and pause time.

Example program:
Run 2 hours -> pause 1 hour -> run 2 hours (repeat).

12. E-stop (Emergency OFF):
Tap STOP to immediately disconnect the relay and stop all operations. Tap again to resume.
13. Inching (Countdown Timer):
Enable inching mode for a single countdown run (1 s to 59 min 59 s).
14. Manual Switch (ON/OFF):
Turn the controlled device ON or OFF manually.
15. Buzzer (On/Off):
Enable or disable the buzzer as required.



Product Settings via Controller

Please consider that if you want to change parameter setting via the controller panel face, the functions are limited. So if you want full functions, please skip this section and check setting via the app on your cellphone.

Code	Function	Range	Default
OFP	High Temperature Alarm	-40.°C-999.9°C	120°C
LFP	Low Temperature Alarm	-40°C-999.9°C	-40°C
DLY	Delayed Start	0 - 10s	0s
OFF	Temperature Calibration	-20°C - 20°C	0°C
bEP	Buzzer (On/Off)	On/Off	On
F-C	Temperature Unit	°C/°F	°C

Product Code Introduction

Instructions:

1. Hold the settings button (⚙) to access the parameter setting.
2. Press the setting button (⚙) again to switch to the next option.
3. Adjust Parameter Values: Use the ▲ **(Up)** and ▼ **(Down)** buttons to adjust the value of the selected parameter.
4. Save and Exit the Menu: Long press the **setting button (⚙)** to exit the settings menu.

DIN500-WP Wi-Fi Waterproof Temperature Controller Manual

For current product information, availability, and compatible options, use the verified ThermoMart links below. The preceding pages remain the original manual content.

PRODUCTS USING THIS DOCUMENT

Models: BBQ-DIN500, DIN500-WP, DIN500-WPK, DIN500-WPK-BBQ

View all 4 products

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