JohnPoint®
約翰點子 空調自動控制專家
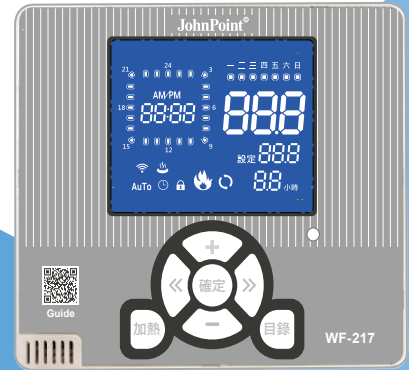
Wireless Water Heater Temperature Controller

The main controller circuit board can be customized based on the customer's organization appearance and special functional requirements.
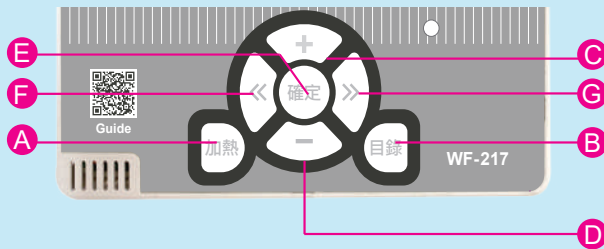
Terminal Control Panel

Four combinations are available

1 Mainboard only (general timing temperature control)

2 Mainboard only (without panel) + APP (WiFi version)

3 Mainboard + N panels

4 Mainboard + N panels + APP (WiFi version)

Wireless Panel :
Eliminates the need for control wires; only requires power supply. Applicable for storage-type electric water heaters, heat pump water heaters, and solar electric auxiliary

Button Functions

A	加熱	Heating	Reheat button & Stop/Start button (long press for 6 seconds)
B	目錄	Menu	Menu button＞Temperature＞Temperature Differential ＞ Temperature Calibration ＞Current Time＞Operation Time＞ Lock
C	+		Increase Value
D	-		Decrease Value
E	中	Center	Confirm Complete and return to the working screen
F	左	Left	Next Item
G	右	Right	Previous Item
	🔒 📶 ANT		ANT Indicates good communication
	ANT		Locked symbol is lit

Parameter Setting Table

Main controller circuit board

	Parameter	Code	Factory Value	Setting Range
1	Temperature Setting	SEt	50℃	30~85℃
2	Temperature Differential Setting	td	2℃	1~9℃
3	Temperature Sensor Calibration	tc	0℃	+-0~9℃
4	Current Time Setting	rt	24hours/7days	24hours/7days
5	Operation Time Setting	At	24hours/7days	24hours/7days (current version does not support daily individual settings)
6	Single Heating Time	St	2H	1~23H
7	Panel Backlight	bL	60（60 seconds）	60（60 seconds） 、--(always on)
8	Locking Lon	Lon/LoF	Lon	

Parameter Setting Table   Current Time/Timing Heating Time/Heating Temperature

Set through the Menu button : Temperature > Temperature Differential > Temperature Calibration >
Current Time > Operation Time > Single Heating Time > Lock >

1. Setting Heating Temperature

Press the Menu button. When the setting code SEt appears, it indicates entry into the heating temperature setting. When the SEt code disappears, you can set the heating temperature using the up and down buttons. Press the confirm button to exit. Note: If no button is pressed for more than 2 seconds, the code will disappear and enter the setting status.

2. Temperature Differential Setting

Continuously press the Menu button until the setting code td appears, indicating entry into temperature differential setting. When the td code disappears, it displays the previously set temperature differential value. Set the temperature differential value using the up and down buttons. Press the confirm button to exit. Note: If no button is pressed for more than 2 seconds, the code will disappear and enter the setting status.

3. Temperature Calibration

Continuously press the Menu button until the setting code tc appears, indicating entry into temperature calibration. When the tc code disappears, it displays the previously set temperature calibration value. Set the temperature calibration value using the up and down buttons. Press the confirm button to exit. Note: If no button is pressed for more than 2 seconds, the code will disappear and enter the setting status.

4. Current Time Setting

Continuously press the Menu button until the setting code rt appears, indicating entry into current time setting. The [Minute] will start blinking. Adjust the minutes using the up and down buttons. After confirming, press the left arrow button (S4) to move to the next [Hour] setting. The [Hour] will start blinking. Adjust the hour using the up and down buttons. After confirming, press the left arrow button (S4) to move to the next [Day] setting. The Monday icon will start blinking. Use the left and right arrow buttons to select the day range (Monday to Sunday), and use the up arrow button to confirm the selected day. Press the confirm button to exit.

5. Operation Time Setting

Continuously press the Menu button until the setting code at appears, indicating entry into operation time setting. Use the left and right arrow buttons to select the timing/date range (1~24 hours and Monday to Sunday), and use the up arrow button to confirm. The down arrow button clears the selected time points. Press the confirm button to exit.

6. Single Heating Time Setting

Continuously press the Menu button until the setting code St appears, indicating entry into single heating time setting. When the St code disappears, it displays the previously set single heating time value. Set the single heating time value using the up and down buttons. Press the confirm button to exit. Note: During the execution of the task on that day and hour, it will be displayed as flashing.

7. Single Forced Heating

When the water heater is not heating, long press the heating button for 6 seconds to force heating to the set temperature (the heating icon will stay on). During heating, if you long press the heating button for 6 seconds again, it will force cancel the heating (the heating icon will go off). Note: To display the countdown remaining time, for example, if 4 hours are set, it will count down from 4 > 3 > 2 > ... to 0 (in hours). Temporarily stop heating (the tank icon will be lit) until released.

8. Parameter Lock Function

Continuously press the Menu button until the setting code Lon or LoF appears, indicating entry into parameter lock function. Use the up and down buttons to switch between Lon/LoF. Press the confirm button to exit. Note: Once parameters are locked (Lon), modifications are not allowed; only viewing is possible. (Locking is only for that device itself)

Communication Signal

📶 When the communication quality is within acceptable range, the wireless icon will stay on; otherwise, it will stay off.

Error Code Display

When the controller of the water heater encounters an issue, the display will show the following error codes:
If an error code appears, heating functionality will stop and abnormal notifications will be made until the issue is resolved:
1. Op： Temperature sensor circuit open or temperature below 0℃
2. SH： Temperature sensor short circuit or temperature above 100℃

Mobile App Remote Monitoring Function

Can be used on iOS and Android phones to remotely control temperature settings and operation periods (requires Wi-Fi signal at the site).