

Quick Guide for SMK104-AW Control Panel with WiFi

Version 1.0 (June 3, 2026)

Item

SMK104-AW WiFi-enabled temperature control panel for large electric smokers.

Specifications

Power Input Requirement	240 VAC (L1, L2, N, G)
Power Input	Hardwired through power cord grip (PCCON-M28)
Main Power Output	240 VAC (L1, L2), Hardwired through conduit (EMTF-1/2)
Auxiliary Power Output	Two 120 VAC, 5A max
Temperature Controller	AW-1520H control board
Temperature Probe	PT1000 RTD (two probes included; supports up to three probes)
Probe Input Connector	3.5 mm Jack
Power Switching Device	40 A SSR (SRDA40)
Dimensions (H x W x D)	10 x 8 x 8 inches (250 x 200 x 200 mm)
Weight	Approximately 14 lbs
Working Environment	0°C - 50°C, less than 85% RH

Identify the Parts

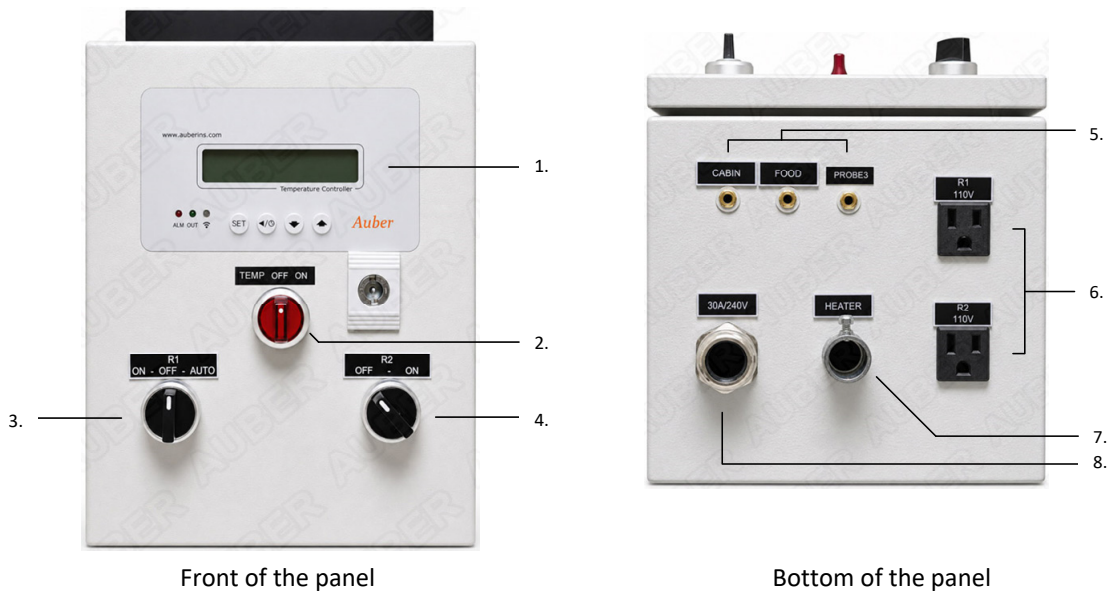


Figure 1. The front and the bottom of the SMK104-AW.

1. Temperature Controller with WiFi connection, AW-1520H.
2. Power switch, 3-position.
3. R1 (AUX1) switch, 3-position.
4. R2 (AUX2) switch, 2-position.
5. Probe input connectors.

6. Auxiliary output sockets, R1 and R2 (120 VAC, 5 A max).
7. Main power output conduit to heating element (240V, 30 A max).
8. Power input cable gland.

WARNING: This control panel operates from 240 VAC. Installation and wiring should be performed by qualified personnel and comply with local electrical codes. Disconnect power before servicing or making wiring changes.

Details

1. **Temperature Controller.** This panel uses the AW-1520H control board.
2. **Power Input.** This panel requires a 240VAC power input with two hot wires (L1 and L2), a neutral (N), and a ground (G). Identify the conductors in the power cord and connect them to the corresponding terminals indicated by the arrows from the POWER IN cable grip in Figure 2. The L2 wire should be connected to the terminal #4 on the main contactor indicated by the red arrow.

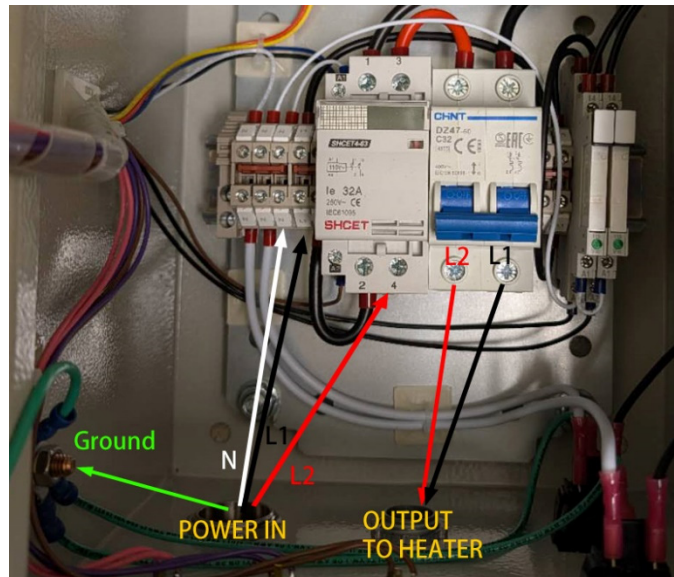


Figure 2. Wiring of the power input and power output.

3. **Power Switch.** This 3-position selector switch controls the power to the control board and the power to the main output (to heater). It doesn't control the power to AUX sockets, R1 and R2. It has 3 positions:
 - TEMP (powers the controller for temperature monitoring only. The heater output remains disabled.)
 - OFF (turns off the controller and disables the heater output.)
 - ON (enables normal operation. The controller and heater output are both powered.)
4. **Main Power Output.** The main output is 240 VAC (L1, L2) and 30 A maximum. It is protected by a 2-pole 32 A circuit breaker. Connect the two leads from the heating element to the two lower terminals of the circuit breaker indicated by the red and black arrows in Figure 2.

5. **AUX Output and AUX Switches, R1 and R2.** Each AUX switch controls power to its corresponding AUX output socket.

The R1 switch has three positions:

- ON – The R1 socket remains continuously energized.
- OFF – Power to the R1 socket is disconnected.
- AUTO – Power to the R1 socket is controlled by the built-in relay on the AW-1520H board.

The R2 switch has two positions:

- OFF – Power to the R2 socket is disconnected.
- ON – The R2 socket remains continuously energized.

Both AUX outputs provide 120 VAC and are rated for a maximum load of 5 A.

6. **Probe Input.** The panel supports three PT1000 RTD temperature probes. The probe inputs are labeled as CABIN (SMKR), FOOD, and PROBE3.

(End)

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