USER MANUAL

A10-WiFi CONTROLLER Replacement for *Pit Boss*

General Description:

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The A10-WiFi Controller is the replacement control board for Pit Boss Wood Pellet Grill.

It can adapt to almost all Pit Boss wood pellet grills models that use rectangular controllers. We have added several practical features and 3 PID temperature control programs (A45, A70, A99) on top of the original controller, allowing you to better control the temperature of different models of grills and make even more delicious grilling food.

Illustration:



ACT SET	The set temperature and the actual temperature of the grill and meat probes are alternately displayed.
()	Indicates the running status of Auger, Igniter and Fan respectively.

Rotary Knob. The flashing WiFi indicator light signifies connection in progress, while a solid ight indicates successful connection.

BLUETOOTH & WIFI CONNECTIVITY

New Function - APP Control (Scan to Download APP)

Meat probe connection ports.



Official Site: https://ifire-tech.com/ e-Mail: customer service@ifire-tech.com

Before You Use

ABOUT PID TEMPERATURE CONTROLLING PROGRAMS:

Program Code	Cooking Surface Area Unit: SQIN	Grill Size	PID
A45	300-600	Small	YES
A70	600-900	Middle	YES
A90	900	Large	YES

NOTE: As the grill reaches the set temperature, the PID regulates it by cycling the auger and fan on and off, creating a "puffing" sound. This is normal.

OPERATING INSTRUCTIONS

APP Control (Recommended, *Full guide: Wireless Setup Appendix*)

- Remote adjustment via smartphone;

- Real-time temperature monitoring.

Full guide: Wireless Setup Appendix

Quick Start Guide v1.0 (Controller Reset Functions)

> WiFi Reset

Use When: Reconnect to a new network.

Action:

1. Power ON controller;

2. Long press the rotary knob ≥5 seconds until feedback occurs.

Factory Reset

Use When:

- Failed firmware updates (bricked controller);

- Unresponsive controller or restore original settings needed. Action:

1. Unplug power cord completely;

2. Press and firmly hold the rotary knob;

3.Replug power while continuing to hold;

4.Keep holding until power LED changes from blinking to solid;

(DO NOT release until LED stops blinking completely)

5. Release rotary knob when power LED remains solid.

Manual Control

- Traditional knob operation;

- No WiFi required.

1. PID TEMPERATURE CONTROLLING PROGRAM SETTING

- (1) Press and hold the "Select" button when the unit is not energized (unplug);
- (2) Energize the unit (plug in) then release the "Select" button;
- (3) Press the"Power"button to enter the Program Setting Mode, the selected code is showed
- as "P-code figures"; the others are showed as "C-code figures";
- (4) Rotate the knob to choose a program code for your pellet grill;

(5) After selecting the right program code for your pellet grill, press"Select" button to confirm, the selected program code will be showed as"P-A45, P-A70, P-A99 ", indicating the setting is done.

(6) After confirming code("P-AXX"shown), unplug the unit.

(Critical NOTE: Immediately unplug (Pull power cord from outlet)! DO NOT press "Power" button to **shut down!**)(**!** Pressing the Power button after selecting program code will cancel programming.) (7) Next time you plug in, the selected program code is displayed on the screen in the first second.

2. START

BOOT:

Plug in, the Power button light flickers, indicating that the controller is in standby status, press the"Power" button to boot.

SET THE GRILL TEMPERATURE:

"---"is showed on the screen indicating that you can set the desired grill temperature (it will exit setting if you do noting in 5 seconds). Temperature can be set in units of 1 degree. (Temperature Setting Range: 180F-550F in A45 and A70. 180F-600F in A99) Press the ROTARY KNOB to enter temperature setting again, rotate the knob to set your desired temperature, then press the **ROTARY KNOB** to confirm.

3. SMOKE MODE:

PID Version (A45, A70, A99):

There are 10 smoke shifts from P0-P9 to choose, the intensity of clean smoke flavor increases as the shift goes up. Smoke mode will be activated when the grill temperature is set below 180F, The temperature fluctuation range in Smoke Mode is within 145F-175F.

SETTING STEPS:

Press the ROTARY KNOB to enter temperature setting, Turn the knob to adjust the temperature to below 180, press the ROTARY KNOB to confirm, "S" will be showed on the screen. the"P"SET icon lights on, "P-figures"flickers (it will exit setting if you do noting in 5 seconds), now you can select "P0 to P9" and then press the ROTARY KNOB to confirm. You can also access to "P"SET via menu selecting, please refer to MENU SELECTION.

4. MENU SELECTION

Press the"Select" button to enter menu selection. The menu order will jump in the loop of "Timer setting - Smoke shift setting - Meat probe 1 target temperature setting - Meat probe 2 target temperature setting - Exit setting" (when a menu is unconfigurable, it will skip to the next menu). The corresponding display area flickers when you turn to a certain menu, press the **ROTARY KNOB** to enter the setting process.

TIMER SETTING:

SMOKE SHIFT SETTING:

Press"Select" to toggle menu when the unit is in smoke mode (the"P"SET icon lights on), when "P"SET icon flickers, press the ROTARY KNOB to enter setting, rotate the knob to choose a smoke shift, press the **ROTARY KNOB** to confirm.

MEAT PROBE TARGET TEMPERATURE SETTING:

You can set the meat probe target temperature only when the probe is inserted in the probe jack. Press "Select" to toggle menu, when "Probe 1 or 2" flickers, press the ROTARY KNOB to enter setting, rotate the knob to set target temperature (90F-250F), press the ROTARY KNOB to confirm. When the actual temperature of the meat probe reaches or is greater than that of the target temperature, the buzzer beeps. Press any key to dismiss the alerts, the meat probe target temperature is initialized.

5. REAL-TIME CIRCUIT MONITORING

The controller can automatically monitor the faults (e.g. bad contact, short circuit, open circuit, load current out of normal range) of its connected parts (Auger, Ingiter and Fan).

SYSTEM OFF:

This system is turned off by default. When it is off, if all connected parts are working normally, the corresponding icon does not light on. If the system finds that some of the connected parts is anomaly, the corresponding icon flickers, indicating that there is a problem with it. Make sure wire connections are firmly connected and dry, if it still does not work, replace the faulty part. If you are confident that the faulty part does not affect the proper operation of the grill, you can ignored the fault alert, by which, however, may cause the grill to run unstable or even a certain probability of burning the controller fuse.

SYSTEM ON:

Press the "Select" and "Prime" buttons at the same time to activate the detection system when the controller is on. In this state, all connected parts icons are solid, indicating that all parts are running normally. When some part is detected anomaly, the corresponding icon flickers, the error code shows, the buzzer beeps, and the grill stops working. The controller is locked and inoperable. Power needs to be cut off, you should make sure wire connections are firmly connected and dry, if it still does not work, replace the faulty part.

Press the"Select" button to toggle the menu, when the timer display area flickers, press the **ROTARY KNOB** to enter the timer setting. "] " or"] " will be showed before the timer figures, " \downarrow " represents time counting, " \downarrow " represents time countdown.

> TIME COUNTING: Press the ROTARY KNOB to enter counting or countdown setting, rotate the knob to choose "] ", press the **ROTARY KNOB** to confirm, time counting starts.

> TIME COUNTDOWN: Press the ROTARY KNOB to enter counting/countdown setting, rotate the knob to choose", ", press the **ROTARY KNOB** to confirm, the timer figures flicker, rotate the knob to set the hour, press the ROTARY KNOB to confirm, rotate the knob to set the minute, press the ROTARY KNOB to confirm, time countdown starts. When it count to 0, the buzzer beeps, press any keys to stop the beep.

COUNTING CANCEL: Press"Select" button to toggle the timer menu, press the ROTARY KNOB to enter timer setting, press and hold ROTARY KNOB for 3 seconds to cancel.

OPERATING INSTRUCTIONS

• NOTE:

When the fault detection system is activated, if a part's current load is out of range, the controller will stop working. However, this doesn't always mean the part is fully damaged. You can bypass the "Fault Detection" by turning off the system to continue using the unit, but it's advisable to replace the faulty part soon to prevent unexpected issues if it fails completely.

6. "ACT" AND "SET" TEMPERATURE

The real-time and set temperature of the grill and meat probes are alternately displayed on the controller screen. When "ACT" icon lights on, the real-time temperatures of the grill and meat probes are displayed. When "SET" icon lights on, the set temperatures of the grill and meat probes are displayed.

7. SHUT DOWN

Do not cut the power supply right after you done use. Cool down program will be running in order to prevent cases such as fuel pipe scorched, ash stacking in burn pot and hopper backfire. This process will usually last 15 mins.

		TROUBLESHOOTING			hatch is closed
Problem	Cause	Solution			
No Power Lights	Power Button	Press the Power Button. Try another attempt and hold for two seconds to verify connection.	"Er1" Error Code	Igniter anomaly	Check the wirin
On The Control	Not Connected To	Ensure smoker is plugged into a working power source. Reset breaker. Ensure GFCI is a			
Board	Power Source, GFCI Outlet Has Tripped	minimum 10 Amp service. Ensure all wire connections are firmly connected and dry.	"Er2" Error Code	Auger anomaly	Check the wirin
	Fuse Blown On The Control Board	Remove cooking components from the main smoke cabinet. Turn the unit onto its side, and remove the screws on the rear side of the Control Board. Check the fuse for a broken wire or if the transparent fuse tubing has turned black. If yes, manually replace with a new fuse.	"ErF" Error Code "noP" Error Code	Fan anomaly Bad Connection At	Check the wirin Disconnect mea
	Faulty Control Board	Control Board needs to be replaced.		Connection Port	Ensure the mean the adapter end
No Power Lights On The Control	Power Button Not Connected To	Press the Power Button. Try another attempt and hold for two seconds to verify connection. Ensure smoker is plugged into a working power source. Reset breaker. Ensure GFCI is a		Meat Probe Damaged	Check for signs Customer Servi
Board	Power Source, GFCI Outlet Has Tripped	minimum 10 Amp service. Ensure all wire connections are firmly connected and dry.		Faulty Control Board	Control Board r part.
	Fuse Blown On The Control Board	Remove cooking components from the main smoke cabinet. Turn the unit onto its side, and remove the screws on the rear side of the Control Board. Check the fuse for a broken wire or if the transparent fuse tubing has turned black. If yes, manually replace with a new fuse.	Thermometer Shows Temperature When Unit	Smoker Has High Ambient Temperature Or Is In Direct	This will not ha ambiently reac
	Faulty Control Board	Control Board needs to be replaced.	Off	Sun	Prop the cabine
Fire In Burn Pot Will Not Light	Auger Not Primed	Before the unit is used for the first time or anytime the hopper is completely emptied out, the auger must be primed to allow pellets to fill the burn pot. If not primed, the igniter will timeout before the pellets ignite. Follow Hopper Priming Procedure.	Smoker Will Not Achieve Or Maintain Stable Temperature	Insufficient Air Flow Through Burn Pot	Check burn pot properly and ai instructions if c
	Auger Motor Is Jammed	Remove cooking components from the main smoke cabinet. Press the Power Button to turn the unit on, turn Temperature Control Dial to SMOKE, and inspect the auger feed system. Visually confirm that the auger is dropping pellets into the burn pot. If not operating properly, call Customer Service for assistance or a replacement part		Lack Of Fuel Poor Fuel	no blockage in smoker, set ten produced is bri
	Igniter Failure	Remove cooking components from the main smoke cabinet. Press the Power Button to turn the unit on, turn Temperature Control Dial to SMOKE, and inspect the igniter. Visually confirm that the igniter is working by placing your hand above the burn pot and feeling for heat.		Quality, Obstruction In Feed System	quality of wood an obstruction and Maintenan
		Visually confirm that the igniter is protruding approximately 13mm / 0.5 inches in the burn pot.		Temperature Probe	Check status of dirty. Contact C
Flashing Dots On	The Igniter Is On	This is not an error that effects the unit. Used to show that the unit has power and is in			
LED Screen		Start-Up mode (igniter is on). The igniter will turn off after five minutes. Once the flashing dots	Smoker Produces Excess	Grease Build-Up	Follow Care and
		disappear, the unit will begin to adjust to the desired temperature selected.	Or Discolored Smoke	Wood Pellet Quality	Remove moist instructions to
Flashing	Smoker Temperature	This is not an error that effects the unit; however, it is used to show that there is some risk that		Burn Pot Is Blocked	Clear burn pot
Temperature On LED Screen	Is Below 65°C /150°F	the fire could go out		Insufficient Air Intake For Fan	Check fan. Ensu and Maintenan

APP Control Full guide: Wireless Setup Appendix TROUBLESHOOTING

Solution

Problem

"ErH" Error Code

"Err" Error Code

"Frl " Frror Code

Cause

The Smoker Has

Overheated, Possibly Due To

Grease Fire Or Excess Fuel.

Grill Temperature Probe

Wire Not Making

Connection

Ignition failure

Press and hold the Power Button to turn the unit off. Once cooled, press the Power Button to turn the unit on, then select desired temperature. If error code still displayed, contact Customer Service

Access the electrical components on the base of the unit and check for any damage to the Grill Temperature Probe wires. Ensure the Grill Temperature Probe spade connectors are firmly connected, and connected correctly, to the Control Board.

The pellets in hopper is insufficient, the feeding pipe is scorched and blocked, the

ring, connect it firmly, If it doesn't work, change the damaged ignitor.

ring, connect it firmly, If it doesn't work, change the damaged auger.

ring, connect it firmly, If it doesn't work, change the damaged fan.

neat probe from connection port on the Control Board, and reconnect. neat probe adapter is firmly connected. Check for signs of damage to end. If still failed, call Customer Service for replacement part.

ns of damage to the wires of the meat probe. If damaged, call rvice for replacement part.

d needs to be replaced. Contact Customer Service for a replacement

harm the smoker. The internal temperature of the main cabinet has ached or exceeded 54°C / 130°F. Move the smoker into a shaded area. inet door open to reduce the internal temperature.

pot for ash build-up or obstructions. Check fan. Ensure it is working air intake is not blocked. Follow Care and Maintenance

if dirty. Check auger motor to confirm operation, and ensure there is in the auger tube. Once all the above steps have been done, start the emperature to SMOKE and wait for 10 minutes. Check that the flame bright and vibrant.

er to check that fuel level is sufficient, and replenish if low. Should the ood pellets be poor, or the length of the pellets too long, this may cause on in the feed system. Remove pellets and follow Care ance instructions.

of temperature probe. Follow Care and Maintenance instructions if Customer Service for a replacement part if damaged.

and Maintenance instructions.

st wood pellets from hopper. Follow Care and Maintenance

to clean out. Replace with dry wood pellets

ot of moist wood pellets. Follow Hopper Priming Procedure.

nsure it is working properly and air intake is not blocked. Follow Care ance instructions if dirty.

Wireless Setup Appendix

> Device Pairing Process 1.0

Wireless Setup Appendix

Device Pairing Process 1.0



< SETUP WIFI WIFI NETWORKS DIRECT-WK-EPSON-L15150 Series HP-Print-B9-LaserJet Pro MFP AB11 IFire AB11 TP-LINK_5225 IFire IFire CONNECT CONNECT SET GRILL INFO GRILL NAME IFireTech1812	
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Wireless Setup Appendix

Built-in Program Adjustment

Wireless Setup Appendix > Grill Control Hub (Error Alerts & Causes) SETTINGS 17:09 ::! 🕈 🖽 **Error Alerts & Causes** < iFireTech4945 ... working | @ CONNECTED **TEMP SCALE** °F> Component Status Checks: Potential Error Alerts & Causes **BUILD-IN PROGRAM** A70 > > IGNITION: FIRMWARE UPDATE 1.0.1 > 1. FAULT: Ignition rod not installed, rod specifications do not match, or circuit TEMPERATUR 85 faults in the ignition rod section. OFF FLUCTUATION THE SHOLD 10/-10 > 2. TIMEOUT: Fails to heat up for a long time after entering working mode. 3 Click "BUILD-IN PROGRAM" STATUS > FAN to set the program. BY-PASS IGNITION FAN FAULT MOTOR RTD FAULT FAULT: Fan not installed, fan specifications do not match, or circuit faults in the fan section. MOTOR 4 Select a program code then ₿ 0 X click "OK". Unplug then plug in LOCK SLIDE OFF TIMING FAULT: Motor not installed, motor specifications do not match, or circuit to complete the program setting PROBE 1# PROBE 2# faults in the motor section. A70 **RTD TEMP 1. ERROR:** Temperature probe not installed, probe specifications do not match, or circuit faults in the probe section. 2. OVER-LIMIT: The Smoker Has Overheated, not controlled by the controller. ::! ? 🖽 17:10 **About BYPASS** < iFireTech4945 **APP Control Guide** .dil ••• standby | CONNECTED **BYPASS ON: TEMPERATUR Section** (Chamber temperature reading/setting) If a component experiences a load (Fault), the controller can still be used. This TEMPERATUR OFF 85 function is applicable only to load anomaly in the ignition rod, fan motor, and auger motor. STATUS **BYPASS OFF:** BY-PASS IGNITION FAN RTD ERROR If a component load is anomaly (Fault) then the controller triggers an alarm (making it unusable), the bypass can now be activated to suppress the alarm. Χ ₿ However, operating the equipment in bypass mode when anomaly load occurs LOCK TIMING SLIDE OFF may lead to unpredictable issues . PROBE 1# PROBE 2#

states.

Official Site: https://ifire-tech.com/ e-Mail: customer_service@ifire-tech.com



Meat probes temperature reading/target temperature setting.

4. Meat Probes (PROBE 1# / PROBE 2#)

NOTE: Regardless of whether the controller is in BYPASS mode, it cannot be used in the case of IGNITION (TIMEOUT) and RTD (ERROR, OVER-LIMIT)