USER MANUAL

P7-PRO-WiFi CONTROLLER Replacement for *Pit Boss*

General Description:

P7-PRO-WiFi Controller is the replacement control board for:

Pit Boss Wood Pellet Grill Tailgater (P7-340) / Lexington (P7-540) / Classic (P7-700) / Austin XL (P7-1000). We've added some useful features and 2 PID temperature controlling programs to the original control board so that you can better control your grill and make the perfect grilling food.

Illustration:



BLUETOOTH & WIFI CONNECTIVITY

New Function - APP Control (Scan to Download APP)



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

Before You Use

ABOUT PID TEMPERATURE CONTROLLING PROGRAM:

Program Code	Cooking Surface Area Unit: SQIN	Grill Size	PID
A45	350-650	Small/Middle	YES
A70	>650	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

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";
- 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 or P-A70", indicating that the setting is done.

(6) 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 turn on the unit, 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). Press the ROTARY KNOB to enter temperature setting again, rotate the knob to set your desired temperature (NOTE: in Version A45, A70, temperature can be set in units of 1 degree, others versions in units of 25 or 50 degree.), then press the **ROTARY KNOB** to confirm.

3. SMOKE MODE

PID Version (A45, A70):

as the shift goes up.

Smoke mode will be activated when the grill temperature is set as 145F-200F, press the ROTARY KNOB to enter temperature setting, rotate the ROTARY KNOB to choose between 145F and 200F, press the ROTARY KNOB to confirm, 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:

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.

buzzer beeps, press any keys to stop the beep.

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 to 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.

- Traditional knob operation; - No WiFi required.

There are 10 smoke shifts from PO-P9 to choose, the intensity of clean smoke flavor increases

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

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.

Scorencu, usir stuci	king in burn pot und nopp	ci backine. This process win asaany last is thins.			
		TROUBLESHOOTING	"ErL" Error Code	Ignition failure	The pellets in hop 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 wiring,
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	minimum 10 Amp service. Ensure all wire connections are firmly connected and dry.	"Er2" Error Code	Auger anomaly	Check the wiring,
	Outlet Has Tripped				
	Fuse Blown On The	Remove cooking components from the main smoke cabinet. Turn the unit onto its side, and	"ErF" Error Code	Fan anomaly	Check the wiring,
	Control Board	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.	"noP" Error Code	Bad Connection At	Disconnect meat
	Faulty Control Board	Control Board needs to be replaced.		Connection Port	Ensure the meat
					the adapter end.
No Power Lights	Power Button	Press the Power Button. Try another attempt and hold for two seconds to verify connection.		Meat Probe Damaged	Check for signs of
On The Control	Not Connected To	Ensure smoker is plugged into a working power source. Reset breaker. Ensure GFCI is a			Customer Service
Board	Power Source, GFCI	minimum 10 Amp service. Ensure all wire connections are firmly connected and dry.		Faulty Control Board	Control Board nee
	Outlet Has Tripped				part.
	Fuse Blown On The	Remove cooking components from the main smoke cabinet. Turn the unit onto its side, and			
	Control Board	remove the screws on the rear side of the Control Board. Check the fuse for a broken wire or if	Thermometer Shows	Smoker Has High Ambient	This will not harm
		the transparent fuse tubing has turned black. If yes, manually replace with a new fuse.	Temperature When Unit	Temperature Or Is In Direct	ambiently reache
	Faulty Control Board	Control Board needs to be replaced.	Off	Sun	Prop the cabinet
Fire In Burn Pot	Auger Not Primed	Before the unit is used for the first time or anytime the hopper is completely emptied out, the	Smoker Will Not Achieve	Insufficient Air Flow	Check burn pot fo
Will Not Light	Auger Hot Finned	auger must be primed to allow pellets to fill the burn pot. If not primed, the igniter will timeout	Or Maintain Stable	Through Burn Pot	properly and air i
		before the pellets ignite. Follow Hopper Priming Procedure.	Temperature	5	instructions if dire
	Auger Motor Is	Remove cooking components from the main smoke cabinet. Press the Power Button to turn			no blockage in th
	Jammed	the unit on, turn Temperature Control Dial to SMOKE, and inspect the auger feed system.			smoker, set temp
		Visually confirm that the auger is dropping pellets into the burn pot. If not operating properly,			produced is brigh
		call Customer Service for assistance or a replacement part.		Lack Of Fuel, Poor Fuel	Check hopper to
	Igniter Failure	Remove cooking components from the main smoke cabinet. Press the Power Button to turn		Quality, Obstruction In Feed	quality of wood p
		the unit on, turn Temperature Control Dial to SMOKE, and inspect the igniter. Visually confirm		System	an obstruction in
		that the igniter is working by placing your hand above the burn pot and feeling for heat.			and Maintenance
		Visually confirm that the igniter is protruding approximately 13mm / 0.5 inches in the burn pot.		Temperature Probe	Check status of te
					dirty. Contact Cus
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 N
		disappear, the unit will begin to adjust to the desired temperature selected.	Or Discolored Smoke	Wood Pellet Quality	Remove moist wo
					instructions to cle
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 of
Temperature On	Is Below 65°C /150°F	the fire could go out		Insufficient Air Intake For	Check fan. Ensure
LED Screen				Fan	and Maintenance

APP Control Full guide: Wireless Setup Appendix

Solution

Problem

"ErH" Error Code

"Err" Error Code

Cause

The Smoker Has

Overheated, Possibly Due To

Grease Fire Or Excess Fuel.

Grill Temperature Probe

Wire Not Making

Connection

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.

bot 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 remperature 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 bod pellets be poor, or the length of the pellets too long, this may cause on in the feed system. Remove pellets and follow Care nance instructions.

of temperature probe. Follow Care and Maintenance instructions if t 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 📋 😤
ole	HP-Print-B9-LaserJet Pro MFP 🗢 🗢
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	lFire 🍵 📚
	TP-LINK_5225 🗎 奈
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o setup page.	TYPE MODEL HERE
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	TYPE DURATION HERE yrs
	GRILL AREA
	TYPE AREA HERE m ²
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evice.	FINISH

Wireless Setup Appendix

Wireless Setup Appendix

Built-in Program Adjustmen

DEVICES

FUTURE FIRE @

1 Click the "Add"

FUTURE FIRE 1 &

Devices

button to navigate to the Bluetooth search page.

 Component Status Cf FAULT: A PROCEASE 1000 	ıstment		GrillControl Hull	b (Error Alerts & Causes)
APP Control Guide > Standby CONNECTED (Current system status) > TEMPPERATUR Section (chamber temperature reading/setting) > SMOKE ON/OFF (Smoke generating status) > STATUS IGNITION OK FAN OK MOTOR OK RTD OK BYPASS > SAFETY CONTROLS 1. LOCK Screen lock to prevent accidental touches. Long press to UNLOCK. 2. SLIDE OFF Remote shutdown ONLY (Remote power-on is disabled for safety). 3. TIMING Programmable cooking timer with alerts. Long press "TIMING" or "PAUSE" to CANCEL TIMING. 4. Meat Probes (PROBE 1# / PROBE 2#)	 iFireTech1812 working L^a CONNECTED TEMPERATURE 84°F 171°F STATUS Click "" to navigate to the more settings page. Click "BUIL STATUS Click "BUIL OCK SLIDE OFF START O0:02:45 O0:02:45 O0:02:45 O0:03:00 PROBE 1# PROBE 2# 223°F 	°F > A70 > 1.0.1 > LD-IN PROGRAM" am code then ug then plug in rogram setting 5	FINITION FAULT MOTOR RTD COCK SLIDE OFF	 Component Status Check IGNITION: FAULT: Ignition rod not in faults in the ignition rod TIMEOUT: Fails to heat ut FAN FAULT: Fan not installed, the fan section. MOTOR FAULT: Motor not installed faults in the motor section
Meat probes temperature reading/target temperature setting.	 Standby CONNECTED (Current system stat TEMPERATUR Section (Chamber temperature SMOKE ON/OFF (Smoke generating status) STATUS IGNITION OK FAN OK MOTOR OK RTD O SAFETY CONTROLS LOCK Screen lock to prevent accidental touches. Long pr SLIDE OFF Remote shutdown ONLY (Remote power-on is disa TIMING Programmable cooking timer with alerts. Long press "TIMING" or "PAUSE" to CANCEL TIMIN Meat Probes (PROBE 1# / PROBE 2#) 	e reading/setting) K BYPASS ess to UNLOCK. bled for safety). NG.	<pre>< iFireTech4945 • standby @ CONNECTED TEMPERATURE 855°F -/-*F IGNITION FAN MOTOR RTD OK IGNITION FAN MOTOR RTD OK LOCK SLIDE OFF TIMING </pre>	 BYPASS ON: If a component experiences function is applicable only to auger motor. BYPASS OFF: If a component load is anot (making it unusable), the by However, operating the equit may lead to unpredictable is NOTE: Regardless of wheth used in the case of IGNIT.
		ure setting.		Official Site: https://ifire-te

Status Checks: Potential Error Alerts & Causes)N:

- he ignition rod section.

tor not installed, motor specifications do not match, or circuit e motor section.

- 1P

15:37 ::!! ᅙ 99 <u>dd</u> ... < standby CONNECTED

Histor

Setting



Error Alerts & Causes

nition rod not installed, rod specifications do not match, or circuit

Fails to heat up for a long time after entering working mode.

n not installed, fan specifications do not match, or circuit faults in

emperature probe not installed, probe specifications do not circuit faults in the probe section.

IT: The Smoker Has Overheated, not controlled by the controller.

About BYPASS

nt experiences a load (Fault), the controller can still be used. This plicable only to load anomaly in the ignition rod, fan motor, and

ent load is anomaly (Fault) then the controller triggers an alarm usable), the bypass can now be activated to suppress the alarm. erating the equipment in bypass mode when anomaly load occurs unpredictable issues.

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

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