USER MANUAL

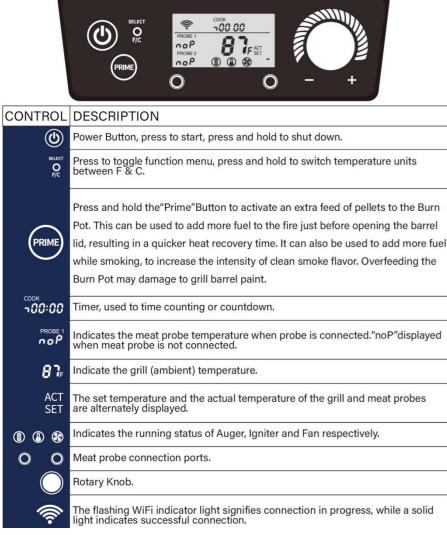
P7 X.5-PRO-WiFi CONTROLLER Replacement for *Pit Boss*

General Description:

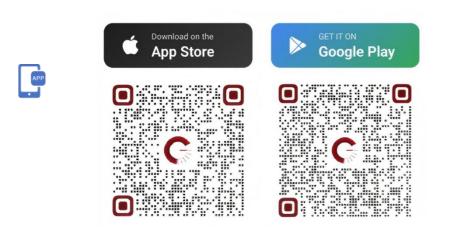
P7 X.5-PRO-WiFi Controller is the replacement control board for: Pit boss Series 3/4/5/7 Vertical Pellet Smoker.

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:



New Function - APP Control (Scan to Download APP)



Before You Use

ABOUT PID TEMPERATURE CONTROLLING PROGRAM:

Program Code	Cooking Surface Area Unit: SQIN	Grill Size	PID
4PP	3/4/5	Small/Middle	YES
7PP	7	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 quide: Wireless Setup Appendix*) - Remote adjustment via smartphone;

- Real-time temperature monitoring.

Full guide: Wireless Setup Appendix

Ouick 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. TEMPERATURE CONTROLLING PROGRAM SETTING

Select a PID program matching your pellet smoker model.

- (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-4PP or P-7PP", indicating 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 4PP, 7PP, 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. MENU SELECTION

Press the "Select" button to enter menu selection. The menu order will jump in the loop of "Timer setting - Meat probe 1 target temperature setting - Meat probe 2 target temperature setting - Exit setting" (when a menu is unconfigurable, it will skip the menu 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, " \square " represents time counting, " \square " represents time countdown.

> 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.

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.

4. REAL-TIME CIRCUIT MONITORING

SYSTEM OFF:

This function 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 fault part. If you are confident that the fault part does not affect the proper operation of the grill, you can ignore 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.

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.

5. "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.

6. 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.

BLUETOOTH & WIFI CONNECTIVITY

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.

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).

TROUBLESHOOTING

TROUBLESHOOTING

Problem	Cause	Solution	Problem	Cause	Solution
No Power Lights	Power Button	Press the Power Button. Try another attempt and hold for two seconds to verify connection.	"ErL" Error Code	Ignition failure	The pellets in ho
On The Control	Not Connected To Power	Ensure smoker is plugged into a working power source. Reset breaker. Ensure GFCI is a			hatch is closed
Board	Source, GFCI Outlet Has	minimum 10 Amp service. Ensure all wire connections are firmly connected and dry.			
	Tripped		"Er1" Error Code	Ignitor anomaly	Chook the wiring
	Fuse Blown On The	Remove cooking components from the main smoke cabinet. Turn the unit onto its side, and	Er1 Error Code	Igniter 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.	"Er2" Error Code	Auger anomaly	Check the wiring
	Faulty Control Board	Control Board needs to be replaced.			
			"ErF" Error Code	Fan anomaly	Check the wiring
No Power Lights	Power Button	Press the Power Button. Try another attempt and hold for two seconds to verify connection.			
On The Control	Not Connected To Power Ensure smoker is plugged into a working power source. Reset breaker. Ensure GFCI is a		"noP" Error Code	Ded Connection At	Discourse at most
Board	Source, GFCI Outlet Has	minimum 10 Amp service. Ensure all wire connections are firmly connected and dry.	nop Error Code	Bad Connection At	Disconnect meat
	Tripped			Connection Port	Ensure the meat
	Fuse Blown On The	Remove cooking components from the main smoke cabinet. Turn the unit onto its side, and			the adapter end.
	Control Board	remove the screws on the rear side of the Control Board. Check the fuse for a broken wire or		Meat Probe Damaged	Check for signs o
		if the transparent fuse tubing has turned black. If yes, manually replace with a new fuse.			Customer Service
	Faulty Control Board	Control Board needs to be replaced.		Faulty Control Board	Control Board ne
					part.
Fire In Burn Pot	Auger Not Primed	Before the unit is used for the first time or anytime the hopper is completely emptied out,			
Will Not Light		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.	Thermometer Shows	Smoker Has High Ambient	This will not harr
	Auger Motor Is Jammed	Remove cooking components from the main smoke cabinet. Press the Power Button to turn	Temperature When Unit	Temperature Or Is In Direct	ambiently reache
		the unit on, turn Temperature Control Dial to SMOKE, and inspect the auger feed system.	Off	Sun	Prop the cabinet
		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.	Smoker Will Not Achieve	Insufficient Air Flow	Check burn pot f
	Igniter Failure	Remove cooking components from the main smoke cabinet. Press the Power Button to turn	Or Maintain Stable		properly and air
		the unit on, turn Temperature Control Dial to SMOKE, and inspect the igniter. Visually		Through Burn Pot	
		confirm that the igniter is working by placing your hand above the burn pot and feeling for	Temperature		instructions if dir
		heat. Visually confirm that the igniter is protruding approximately 13mm / 0.5 inches in the			no blockage in th
		burn pot.			smoker, set temp
					produced is brigh
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		Lack Of Fuel, Poor Fuel	Check hopper to
LED Screen		Start-Up mode (igniter is on). The igniter will turn off after five minutes. Once the flashing		Quality, Obstruction In Feed	quality of wood p
		dots disappear, the unit will begin to adjust to the desired temperature selected.		System	an obstruction in
				System	
Flashing	Smoker Temperature Is	This is not an error that effects the unit; however, it is used to show that there is some risk			and Maintenance
Temperature On	Below 65°C /150°F	that the fire could go out		Temperature Probe	Check status of t
LED Screen					dirty. Contact Cu
"ErH" Error Code	The Smoker Has	Press and hold the Power Button to turn the unit off. Once cooled, press the Power Button	Smoker Produces Excess	Grease Build-Up	Follow Care and
		to turn the unit on, then select desired temperature. If error code still displayed, contact	Or Discolored Smoke	Wood Pellet Quality	Remove moist w
	To Grease Fire Or Excess	Customer Service		and a check quality	instructions to cl
	Fuel.			Durp Dat la Diacka d	
				Burn Pot Is Blocked	Clear burn pot of
"Err" Error Code	Grill Temperature Probe	Access the electrical components on the base of the unit and check for any damage to the		Insufficient Air Intake For	Check fan. Ensur
	Wire Not Making	Grill Temperature Probe wires. Ensure the Grill Temperature Probe spade connectors are		Fan	and Maintenance
	Connection	firmly connected, and connected correctly, to the Control Board.			

hopper is insufficient, the feeding pipe is scorched and blocked, the

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

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

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

eat probe from connection port on the Control Board, and reconnect. eat probe adapter is firmly connected. Check for signs of damage to nd. If still failed, call Customer Service for replacement part. s of damage to the wires of the meat probe. If damaged, call vice for replacement part.

needs to be replaced. Contact Customer Service for a replacement

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

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

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

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

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

d Maintenance instructions.

wood pellets from hopper. Follow Care and Maintenance

clean out. Replace with dry wood pellets

of moist wood pellets. Follow Hopper Priming Procedure.

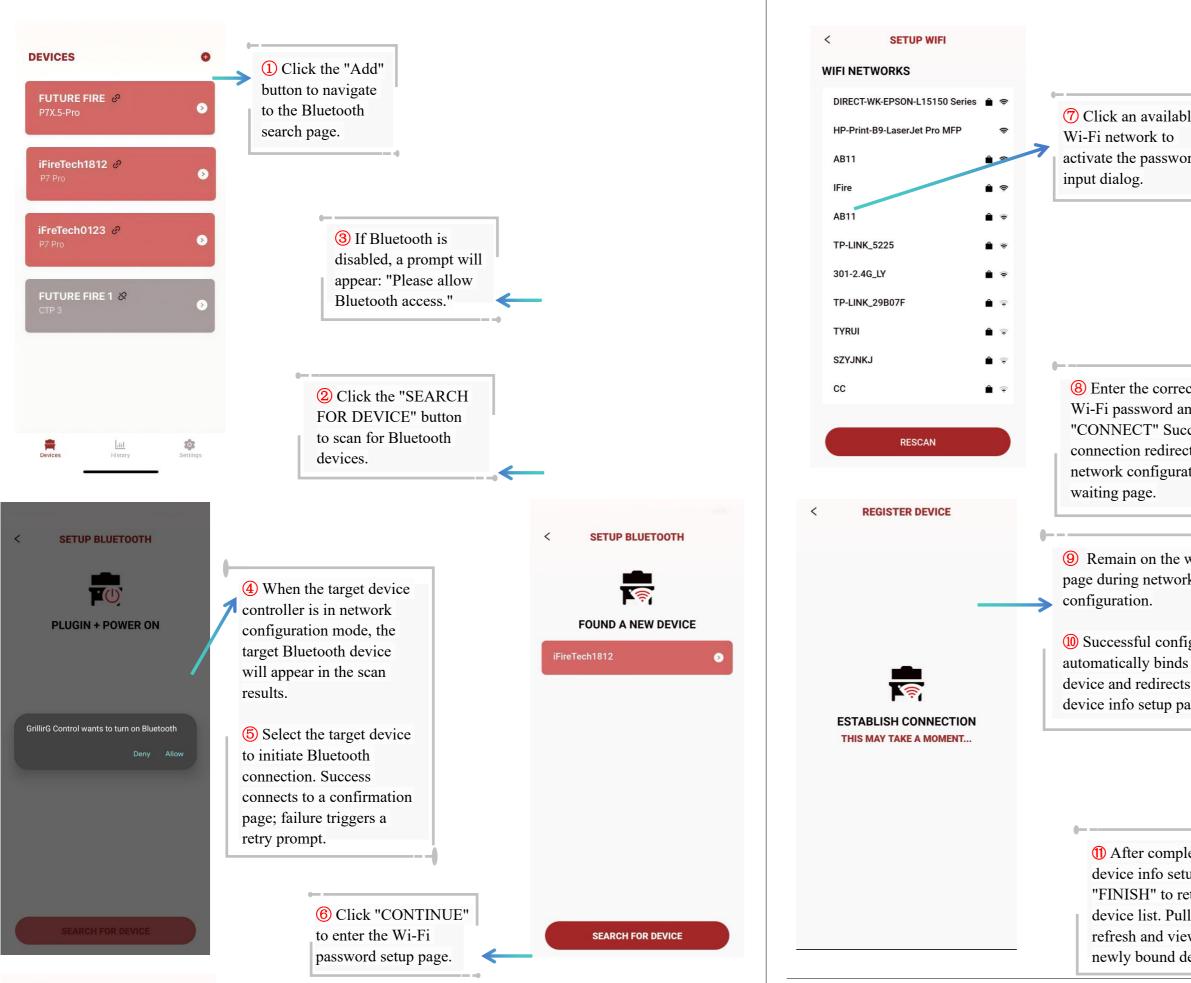
ure it is working properly and air intake is not blocked. Follow Care nce instructions if dirty.

Wireless Setup Appendix

Wireless Setup Appendix

Device Pairing Process 1.0

Device Pairing Process 1.0



	< SETUP WIFI		
	WIFI NETWORKS		
le	DIRECT-WK-EPSON-L15150 Series 📋 😤		
	HP-Print-B9-LaserJet Pro MFP 🗢		
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Wireless Setup Appendix

Wireless Setup Appendix

> Built-in Program Adjustment

Built-in Program Adju	ustment	GrillControl Hub (Error Alerts & Causes)		
<pre>< iFireTech1812 DEVICES FUTURE FIRE PTX.5-Pro iFireTech1812 future fire1 futu</pre>		Image: Settings TEMP SCALE °F > Build-in PROGRAM 7PP > FIRMWARE UPDATE 10.1 > Image: Click "BUILD-IN PROGRAM" 10/-10 > Click "BUILD-IN PROGRAM" to set the program.	16:45 CIFICETCONNECTED CONNECTE	 Erro Component Status Check IGNITION: FAULT: Ignition rod not in faults in the ignition rod set TIMEOUT: Fails to heat up FAN FAULT: Fan not installed, the fan section. MOTOR FAULT: Motor not installed faults in the motor section RTD TEMP ERROR: Temperature promatch, or circuit faults in OVER-LIMIT: The Smoker
$16:45 \qquad ::: \ \ \ \ \ \ \ \ \ \ \ \$	 Standby CONNECTED TEMPERATUR Section (STATUS IGNITION OK FAN OK SAFETY CONTROLS LOCK Screen lock to prevent accider SLIDE OFF Remote shutdown ONLY (Rem TIMING Programmable cooking timer of Long press "TIMING" or "PAUS Meat Probes (PROBE 1# / 1) 	Chamber temperature reading/setting) MOTOR OK RTD OK BYPASS Intal touches. Long press to UNLOCK. Note power-on is disabled for safety). With alerts. SE" to CANCEL TIMING.	16:45 ∴ IFIRETECH83308 → standby I ♥ CONNECTED TEMPERATURE 84.°F -f.* TATUS NOTOR RTD NOTOR RTD	 BYPASS ON: If a component experiences a function is applicable only to auger motor. BYPASS OFF: If a component load is anor (making it unusable), the by However, operating the equipmay lead to unpredictable is: NOTE: Regardless of wheth used in the case of IGNITE states. Official Site: https://ifire-tech

ent Status Checks: Potential Error Alerts & Causes TION:

- in the ignition rod section.

Motor not installed, motor specifications do not match, or circuit n the motor section.

- TEMP

16:45 < iFireTech8308 standby | @ CONNECTED



SS ON:

SS OFF:

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

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

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

Error Alerts & Causes

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

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

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

R: Temperature probe not installed, probe specifications do not , or circuit faults in the probe section.

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

About BYPASS

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