



## **LL\_ATC-3 Controller Startup Manual and Specifications**

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## General Use & Safety Information

ALL BBQ RELATED PRODUCTS MAY CAUSE A POTENTIAL RISK FOR BODILY HARM OR PROPERTY DAMAGE. PLEASE READ AND UNDERSTAND THIS USER'S GUIDE COMPLETELY BEFORE INSTALLING OR USING THIS PRODUCT!

**WARNING: NOT INTENDED FOR USE BY CHILDREN!** This product is intended for use for adults only. Not intended for use by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge. Never let children operate or play around active barbecues.



**WARNING: FIRE HAZARD, BURN HAZRD!** If there is a product malfunction, pit fans can stay on and cause pits to get hotter than normal or required, which can result in unsafe conditions. Regularly inspect the PIT and MEAT probe wires for damage which could cause failure. Operate barbecue while using common barbecue safety practices ensure that readings are accurate and safe. NEVER LEAVE THIS PRODUCT UNATTENDED WHEN IN USE. ALWAYS USE CAUTION WHILE OPENING LIDS AND OPERATING YOUR BARBECUE.



**WARNING: FIRE HAZARD, BURN HAZRD! FLAMES, SPARKS AND EMBERS CAN EXIT AND CAUSE FIRE!** Never operate a pit near buildings, structures, combustibles, brush, fuels, or anything else that may catch fire. Excessively hot barbecues can ignite flammable materials. Embers can also travel and cause fire in uncontrolled areas. Always have a proper fire extinguisher and water supply available.



**WARNING: STEAM AND SMOKE HAZARD: USE OF WATER AND/OR WATER PANS WITH THIS PRODUCT IS DISCOURAGED.** Grease and water can cause steam and hot grease spatter. Use of PPE is STRONGLY suggested when using water pans to help guard against steam and grease burns to your eyes and skin.



**WARNING: WATER RESISTANT CONTROLLER, NOT WATER PROOF!** LavaLock® ATC-3 controller is a water resistant controller. It is NOT water proof. Always operate in dry conditions to avoid damage to its electronics and/or operation, which could potentially cause a hazardous condition.



CAUTION: USE OF TRADITIONAL FIRE EXTINGUISHING METHOD IS ENCOURAGE. Keep pit clean and free of fat and grease build up to reduce accidental pit fires.



CAUTION: The control unit has no user-serviceable components. Opening or making unauthorized alterations to equipment can cause it to fail, posing a danger.

## Limited Electronics Warranty & Repair Policy

LavaLock® ATC-3 controllers are covered by 1 year replacement warranty for manufacturer material or workmanship defect. The fan, power supply and adapters are covered by a 6-month replacement warranty. Probes are covered for 6 months. This warranty is void if the unit shows evidence excessive wear, tampering, water damage, excessive heat damage, drop damage or other misuse.

Unless otherwise prior approval is obtained, all returns and exchanges must be accompanied by the original sales receipt, documentation, instruction manuals, all parts and all components in the original manufacturer packaging. Warranty is non-transferrable from one owner to the next.

For controllers that are out-of-warranty, we may be able to assist in repairing or offering suitable replacement parts, for a charge to be determined. We will make our best effort to assist in repair or replacement for as low of a cost to you, as possible.

Important Warranty Disclaimer. The limited warranty described herein is in lieu of any other warranty, expressed or implied, including any implied warranty of merchantability or fitness for a particular use. The user shall determine the suitability of the product for its intended use. Liability for any incidental or consequential damage or loss is excluded. The user assumes all risk for the products use, handling and storage. Additionally, Island Outdoor, LLC shall not be responsible for any damage or losses, however caused, as a result of the installation or use of this product.

# LavaLock® ATC-3 Features

- Smart PID full-cycle control algorithm for accurate and stable Pit temperature control.
- Connects to your WIFI enabled phone for direct access to temperatures and all the control settings.
- Quick and easy operation on the controller itself. Advanced setup and cook data shown on phone application.
- Controls your pit temperature and monitors all four probes' statuses.
- Pit and meat probes are made of armored, dishwasher-safe materials.
- Real-time pit, meat and fan statuses.
- Features temperature alarms, low fuel, fire & open lid detection.

## 1. Controller operating specification

- 1.1 Plug the power supply into the controller and turn the power button on.
- 1.2 Default temperature scale is °F. Go to App Settings to change temperature scale.
- 1.3 When the probe is inserted, the corresponding led would light up.
- 1.4 Press and hold the (-/+) button for 1 second to switch probe temp shown on the screen.
- 1.5 Please and hold select button for 2 seconds to enter target temperature set mode.
  - 1.5.1 Both the number on the screen and the corresponding led light would flash while in set mode.
  - 1.5.2 Press (-/+) to set the target temperature.
  - 1.5.3 Default temperature for Pit, Meat 1, Meat 2 and Meat 3 is 250°F.
- 1.6 When Pit target temperature is set, fan would start running with variable speed to get to the target temperature.
- 1.7 When Meat target temperature is set, both controller and app would alert when meat temperature reaches the target temperature.

## 2. Application operating specification

- 2.1 The ATC-3 controller supports both WIFI 2.4G & WIFI 5G.
- 2.2 Download Tuya Smart Application from app store.



- 2.3 For new users, please follow Tuya Smart instruction and enable **WIFI** on your phone for controller WIFI setup.
  - 2.3.1 Turn on the ATC-3 controller.

- 2.3.2 Tuya Smart searches the ATC-3 controller nearby and enter the pairing mode.
- 2.3.3 Make sure both the phone and ATC-3 controller are covered by strong WIFI signal.
- 2.3.4 Enter the WIFI network password and the ATC-3 controller will start connecting to the WIFI network.
- 2.3.5 Once ATC-3 controller is connected to WIFI, the device will be shown in the home menu.
- 2.3.6 Press the device icon to enter control menu.
- 2.4 If users want to change device WIFI network, please follow the instruction below.
  - 2.4.1 **Option 1**
    - Go to Tuya Smart App, long press the device icon and remove the device from the home menu.
    - Turn off ATC-3 controller and wait for 10 seconds, then turn on again.
    - Follow the instruction in 2.3 to connect WIFI network again.
  - 2.4.4 **Option 2**
    - Turn on device, long press '-' and '+' at the same time for 3 seconds and hear two beep sounds.
    - Go to Tuya Smart App, the device should have already been removed from the device list.
    - Follow the instruction in 2.3 to connect WIFI network again.
- 2.5 In the control menu, more specific data and settings are shown.
- 2.6 User can set target temperature and duration for up to four different phases to control Pit temp.
  - 2.6.1 Press "Set Pit Target Temp" from home menu.
  - 2.6.2 Press "Advanced Setup" from Set up Pit Probe page.
  - 2.6.3 For each phase, set target temperature and duration. Then the settings would sync with the controller.
  - 2.6.4 In home menu, target temp for each phase and timer are shown.
- 2.7 Go to settings menu
  - 2.7.1 Switch temperature scale.
  - 2.7.2 Set fan maximum output, if user has a large CFM fan and want to limit the maximum fan output.
- 2.8 OTA update: The controller supports over-the-air updates to add new features , optimize algorithms on both the controller and application.

### **3. Controller Alarms**

- 3.1 **Low fuel alert:** After initial startup, if the Pit temperature is still 25% lower than the target temperature and this situation lasts more than 25 minutes, the controller will beep. This may indicate a low fuel condition or other conditions. The phone application will receive the alert as long as the controller is connected to WIFI. Add fuel if needed.

- 3.2 **Open lid detection:** If the Pit temperature has already reached the target temperature, and drop more than 25% below the preset temperature, this may be caused by the lid opened. The controller will beep and phone will receive the alert.
- 3.3 **Fire detection:** If the Pit temperature increases more than 25% higher the preset temperature, this may be caused by the fire or other conditions. The controller will beep and phone will receive the high temperature alert.
- 3.4 **Meat Alarms**
- 3.4.1 If Meat 1 temperature reaches the target temperature, the controller will beep and phone will receive the alert.
  - 3.4.2 If Meat 2 temperature reaches the target temperature, the controller will beep and phone will receive the alert.
  - 3.4.3 If Meat 3 temperature reaches the target temperature, the controller will beep and phone will receive the alert.

## Probe Placement

- 1 Place Meat 1, Meat 2 or Meat 3 Probe in the thickest part of meat.
- 2 Place Pit probe in center of cook chamber. Adjust placement as necessary.

**Note:** Fully insert the probes into ATC-3. Each probe has an LED indicator next to it. If a probe is plugged into the jack and the LED does not light up, this may indicate that the probe is damaged. May need to consider to replace the probe.

## FAN Control Specification

- 1 The 35 cfm variable speed fan is capable of supporting most small and medium sized pits. Fan speed will vary based on temperature proximity to the set point.
- 2 When the current Pit temperature is lower than the preset Pit temperature, the variable speed fan will automatically turn on. Use of a charcoal starter is recommended for quicker and more balanced starts.
- 3 When the current Pit temperature is higher than the preset temperature, the fan will shut off.
- 4 The smart PID algorithm makes sure the temperature does not spike above set point, and maintain the temperature accurately.

**Note:** The 35 cfm is standard fan for the ATC-3 controller. The controller could run a much larger fan with XX cfm to support large sized pits. For large sized pits solutions, please contact [info@islandoutdoorll.com](mailto:info@islandoutdoorll.com) or visit xxx for product recommendation.

## FAN Adaptor Kit

1 Main threaded adapter can fit almost any cooker. Drill a hole near the original intake damper on the cooker and secure with the supplied nut. You could also install the fan adapter directly onto some intake dampers, if it does not affect function of the damper.

**Note:** Main threaded adapter housing features a positive shut off for times when you do not want to use your controller. DO NOT USE CONTROLLER when the positive shut off on the adapter is engaged.

2 Conversion plates are designed for quick installation on some popular smoker models. See website or full instruction manual for installation and use of conversion plates. The included adapter plates can be trimmed to fit.

## Power Supply

The power supply should only be connected to a 110 GFCI protected outlet. It is suitable for outdoor use. Do not submerge power supply or controller in water or use in wet locations.

## Quick Start Notes and Precautions

- 1 Do not operate controller or BBQ indoors. Do not operate near structures.
- 2 Do not operate BBQ on uneven surface.
- 3 Do not operate BBQ near combustibles.
- 4 Do not use when unattended.
- 5 Intended for use by adults only under normal operating conditions.
- 6 Never operate a BBQ or controller when damaged or in disrepair.
- 7 Use common safety precautions while in use and storage.
- 8 Please see full product manual for additional information.

## Care and Maintenance

**Probes.** The pit and meat probes are the most fragile components of the controller kit. Improper care, inspection and maintenance can cause failure or improper readings. Remove probes from BBQ after each use to clean and inspect. Clean regularly with a damp cloth or scotch brite pad. DO NOT submerge in water or dishwasher. Heat to disinfect at startup. Avoid excessive heat.

**Controller.** Always store in a dry area, free of corrosive air and avoid dropping. Wipe clean, do not submerge. Store in original box.

## Refunds and Exchanges

All returns must be accompanied by a RMA obtained through the original seller. RMA's should include your name, address, email, phone number, date of purchase and other required docs. Units that were purchased through other retail outlets cannot be returned directly to us.

For units purchased through IOLLC directly, refunds on new (unused) controllers will be accepted for 30 days from the day of purchase. This applies only on new, un-opened and un-used units that are re-sellable as new and have the original manufacturers packaging in good condition. Buyer is responsible for return shipping cost and may also be subject to a restock fee.

Used, open or defective controllers will be covered under the warranty section of this manual. However, you have 7 days from the date of receipt, to return all new, and non-working controllers for a full refund and replacement, assuming it does not show signs of damage or wear as outlined above. Controller condition to be determined by IOLLC when the item arrives at our inspection station. NOTE: After 7 days, used and opened controllers are non-returnable and are subject to the warranty process outlined above.

## Troubleshooting Guide

- Probes do not read properly. Inspect probe for heat or wire damage. Ensure that the correct probes are being used and installed fully into the probe port. Probes are not interchangeable with other brands. Note: water boils at 212°F, but that may vary based on elevation. If you suspect a bad probe, it may be helpful to test by swapping the probe with one that is working.
- Unit turns on but fan does not. Verify Pit temperature set points. Inspect fan and wiring for damage.
- Application does not show the controller's data: make sure the controller is covered with good WIFI signal and the controller is connecting to the correct WIFI when it was initially setup.

For additional assistance with this product, please visit our website or call our customer service hotline at 631-648-3404. You can also email us at [info@islandoutdoorllc.com](mailto:info@islandoutdoorllc.com)

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.