acaia

Acaia Pyxis

**User Manual**

FW 1.0.017

Contents

In the Box

Introduction

The instructions in this user manual apply to the Acaia Pyxis. You have purchased a quality precision weighing scale that requires handling with care. Make sure to read through this user manual prior to using the scale. Start by checking that your Acaia Pyxis box contains all the parts listed below:

Pyxis Ultralight Weighing Scale
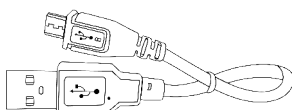
Micro USB Charging Cable

Acaia Calibration Weight 100 g

Next, follow the instructions in Getting Started to begin using your scale. To take full advantage of the Pyxis's many features, carefully read through the manual, which contains step-by-step procedures, examples, and other information.

Warning: Incorrect handling of this product could result in personal injury or physical damage.
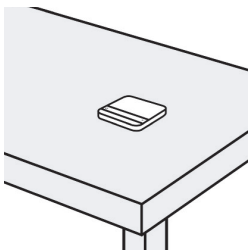
Scale overview

Weighing Pan

LED Display

Power

Tare
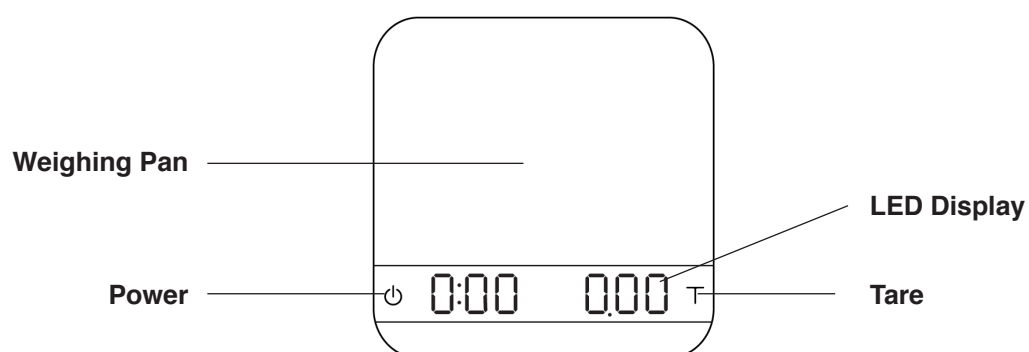
*Note: For the best performance, place the weight in the center of the weighing pan.

Getting Started

Setting up your Pyxis

Select a horizontal surface that is stable and vibration free to set up the scale.

Power on/off

[Press] ⏻ to turn on the scale.
[Double tap] ⏻ to turn off the scale.

Tare weight

[Short press] ⊤ to tare/zero the weight.

Switch mode

[Press and hold] ⏻ to switch modes.

* Please see the "Mode Introduction" section for more details.

Toggle units

[Press and hold] ⊤ to toggle units.

Product Care Information

Charging the battery

• You can charge the battery by plugging the USB cable into any of the power supplies listed below:
  • A computer
  • A USB wall-charger with an output of 5 volts and 1 amp
  • A DC car-charger with an output of 5 volts and 1 amp
• It takes about 1-2 hours to fully charge the battery. Try not to let the battery completely run out before charging. Charge as needed.
• Remaining battery power percentage can be viewed via the Acaia apps.
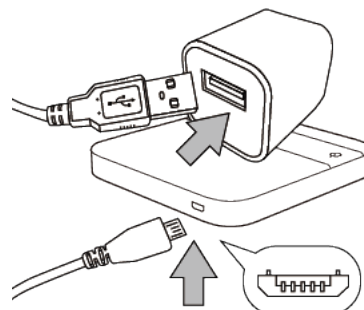
* Note: Using a non-certified charger could damage your Acaia scale's circuit board or battery.

Calibration
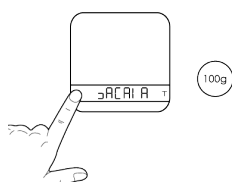
Turn on scale

Turn on the Acaia Pyxis.
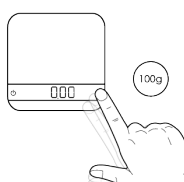
Tap T button

Make sure the scale is in the weighing mode and the unit is set to 'gram', then tap 'T' button rapidly.

Scale displays "CAL"

Keep tapping 'T' button until 'CAL' is shown on the display.
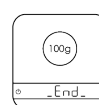
Place a weight

Place a 100 g weight on the scale and wait until the display shows '_End_'.
Calibration is now complete.

Mode Introduction

Mode 1 - Weighing Mode

In the Weighing Mode, the scale will only display weight, in either grams or ounces.

- There are two different weighing units in the Weighing Mode: gram and ounce.
- The LED display shows [0.00] when the scale is measuring in grams.
- The LED display shows [0.0000] when the scale is measuring in ounces.

Action	Operation
Tare	Tap Tare button
Toggle Units g/oz	Long press Tare button
Switch Modes	Long press Power button

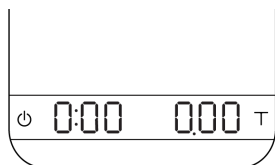***To change the default weighing unit to either gram or ounce, please see Default Unit Setting in the Configuration section (p. 8).**

Mode 2 - Dual Display Mode

In the Dual Display Mode, the scale displays [0:00   0.00] with a timer (left) and weight (right).

- There are two different weighing units in the Dual Display Mode: gram and ounce.
- When the scale is measuring in grams, the LED display shows [0:00   0.00].
- When the scale is measuring in ounces, the LED display shows [0:00   0.000].
- If the weight exceeds 500.00 grams, the scale will display [_ _ _ _].
- The maximum time that can be displayed is 9 minutes and 59 seconds. When the limit is reached, the timer still goes up to until 999 minutes and 59 seconds. It can be observed through our iOS/Android App.

Action	Operation
Start/Stop/Reset Timer	Tap Power button
Tare Operation	Tap Tare button
Switch Mode	Press and hold Power button
Toggle Units g/oz	Press and hold Tare Button

Mode 3 - Auto Start Mode
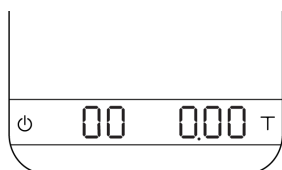
This mode is designed for baristas who would like to measure the time of the shot starting from the first few drops of espresso. When a stable weight is detected, the scale will perform the auto tare operation. After the scale detects the espresso flow, the timer starts. The timer will stop when the espresso flow stops.

Display

• The LED display shows [00   0.00] with the timer on the left and the weight on the right in grams.
• The LED display shows [00 0.0000] with the timer on the left and the weight on the right in ounces.
• The timer displays from [00] to [99] and then stops.

Mode Description

• The auto tare function operates when a stable weight is placed on the scale.
• The timer will start automatically when the flow of espresso is detected.

1 This mode is designed to measure the time of the shot starting from the first few drops of espresso.

2 Place a stable weight on the scale.

3 The scale will perform the auto tare function.

4 When the scale detects the espresso flow, the timer will start.

Action	Operation
Start/Stop/Reset Timer	The timer will start when flow is detected
Tare	Tap Tare button
Reset Mode	Double tap Tare button
Stop Timer	The timer will stop when flow is no longer detected
Switch Mode	Press and hold Power button

Configuration

Enter settings

1. Press and hold Power button while the LED display shows [: ACAI A] and then changes to [SEt].
2. Tap T button to enter Settings. The first setting is [SLEEP].
3. Please refer to the following table for key operations.

Action	Operation
Advance to Next Setting	Tap Tare button
Enter Setting	Long Press Tare button
Toggle Options	Tap Tare button
Save Option	Long Press Tare button
Exit Settings	Tap Power button

Settings menu

Setting	Display	Options	Default
Sleep Timer	SLEEP	5, 10 , 20, 30, 60, Off	5
Zero Tracking	trAcE	0.5 d, 1 d, 2 d, 3 d, Off	1 d
Key Sound	bEEP	On, Off	On
Zero Range	O.rAnGE	2, 100	100
Weighing Filter	Filt.	2, 4, 6, 8, 16, 32, 64, 128	16
Default Weighing Unit	Unit	Gram, Ounce	Gram
Weighing Mode	NOdE_1	On, Off	On
Dual Display Mode	NOdE_2	On, Off	On
Auto Start Mode	NOdE_3	On, Off	On
Bluetooth On/Off	bt_SEt	On, Off	On
Battery Saving	bAttSAvE	30, 90, 180, Off	90
Auto Start Sensitivity	SEnSE	0.1 g, 0.2 g, Off	Off
Auto Reset	Auto_rES	Off, 10, 30	30
Reset to Default	rESEt.d	No, Yes	

Sleep Timer Setting [SLEEP]

1. Sleep Timer settings can also be configured in the Acaia apps.

2. The number indicates the amount of time before the scale automatically powers off. For example, when 10 is selected, the scale powers off after 10 minutes of being idle if the scale is disconnected from all mobile devices.

Zero Tracking Setting [t r AcE]

1. Zero Tracking is a function for automatically maintaining the zero indication within certain limits.

2. Off: It is not recommended to turn off Zero Tracking because the zero indication can drift easily as the room temperature changes.

3. 0.5 d~3 d: Zero Tracking is measured in units of division, or "d". 1d is equal to 0.01 grams. For example, if Zero Tracking is set to 3 d, any weight less than .03 grams will automatically be zeroed.

4. 1 d is recommended in general for the Acaia Pyxis.

Key Sound Setting [bEEP]

1. Key Sound settings can also be configured in the Acaia apps.

2. Set the Key Sound function to on/off to enable/disable the beeping sound.

Zero Range Setting [O. r AnGE]

1. The Zero Range setting determines the range for which the Tare button executes zero operation instead of tare operation.

2. When Zero Range is set to 2, the range for zero-setting will be 2% of the capacity, i.e., ± 10 g for Acaia Pyxis. By pressing the Tare button, any weight within ± 10 g is zeroed out by zero operation while any weight that lies outside the range is tared out by tare operation.

3. If Zero Range is set to 100, the range for zero-setting will be 100% of the capacity, i.e., ± 500 g for Acaia Pyxis. Therefore, instead of tare operation, zero operation would be executed in this setting whenever the Tare button is pressed.

Notice: The difference between zero operation and tare operation is that zero operation would simply ignore the weight and display as 0 while tare operation would deduct the weight from the weighing result. However, zero operation does not increase the scale capacity.

Weighing Filter Setting [Fi l t.]

1. The Weighing Filter Setting determines the speed at which the load receptor responds to weight and determines the weighing value. The larger the number, the more stable but slower the weighing result will be. The number shown on the LED display indicates the current filter setting.

2. Press the Tare button to change the parameter.

Default Unit Setting [Uni t]

1. The Default Weighing Unit is set to grams if [9] is selected and ounce if [o2] is selected.

Weighing Mode Setting [NOdE_1]

1. The Weighing Mode is set to On by default.
   • On: The Weighing Mode is enabled.
   • Off: The Weighing Mode is disabled.

Dual Display Mode Setting [NOdE_2]
1. The Dual Display Mode is set to On by default.
   - On: The Dual Display Mode is enabled.
   - Off: The Dual Display Mode is disabled.

Auto Start Mode Setting [NOdE_3]
1. The Auto Start Mode is set to On by default.
   - On: The Auto Start Mode is enabled.
   - Off: The Auto Start Mode is disabled.

Bluetooth Setup Setting [bt_SEt]
1. Off: Bluetooth is disabled. The scale does not allow any Bluetooth connection.
2. On: Bluetooth is enabled. The scale allows Bluetooth connection. The user may connect the scale with Acaia apps.

Battery Saving [bAtt SA$_V$E]
1. The Acaia Pyxis will wait for the selected number of seconds to enter Battery Saving. The LED display will dim to save power.
2. The default length of time before entering Battery Saving is 90 seconds.

Auto Start Sensitivity [SEnSE]
1. Minimum weight is decreased for more sensitivity. This is ideal for slower espresso shots in the droplet icon modes. Stability depends on environmental noise.
2. The number indicates the sensitivity of flow detection in the droplet icon modes. Smaller value indicates higher sensitivity, but is recommended only for stable working environments.
3. Tap the Tare button to toggle through the options.

Auto Reset [Auto_rES]
1. After a cup is removed, the timer will automatically reset. This setting gives you options on how long to wait before resetting. It enables the user to pull successive shots of espresso quickly in the three auto-start modes.
2. The number indicates the timeout value of timer reset after a cup is removed.
3. Tap the Tare button to toggle through the options.

Reset to Default Setting [rESEt.d]
1. Select [YES] to set all settings to default value.

Appendix
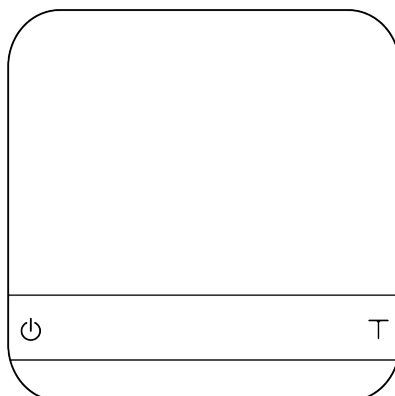
Button functions

	Function	Example
Power Button ⏻	Turn on	Press and hold for 0.5 seconds to turn on the scale.
	Turn off	Double tap to turn off the scale.
	Switch mode	While the scale is turned on, press and hold for one second to switch modes.
	Start/Stop/Reset Timer	Tap to start/stop/reset timer.
	Back	While in Settings Menu, tap to go back to Modes.
Tare Button T	Tare	Tap to perform tare operation.
	Toggle units	Long press to switch between gram and ounce in Weighing Mode.
	Switch option	While in Settings, tap to advance through sub-menus. While in sub-menus, tap to toggle options.
	Reset	While in Auto Start Mode, double tap to reset the mode.
	Confirm	While in Settings, press and hold for two seconds to confirm the option selected in a sub menu.
	Enter Calibration Mode	While in Weighing Mode, rapidly tap to enter Calibration Mode.

LED indicators

Battery Charge/Charge Error

**Tare Operation/
Bluetooth Connected**
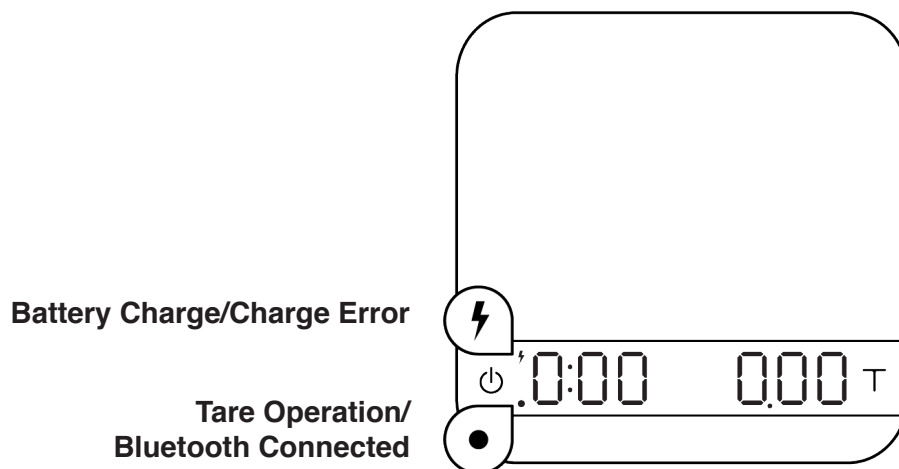
Battery Charge/Charge Error
The LED indicator on the upper left turns on when the battery is charging and turns off when the battery is fully charged. The indicator starts flashing or does not light up when the USB cable malfunctions.

Tare Operation/Bluetooth Connected
The LED indicator on the lower left flashes when the Tare button is pressed or when Bluetooth is connected.

Error codes

Error Code	Description
100	Access Code Error, unrecognized access code.
101	EEPROM error, unable to access memory. Please contact Acaia support.
102	AD error, unable to access weighing signal. Please contact Acaia support.
303	Unable to find acceptable starting Zero point, most likely due to loadcell damage caused by excessive force or drop. Please contact Acaia support.
⎡‾‾‾⎤	Over load: the weight is over the maximum capacity.
⎣___⎦	Under load: the weight is under the minimum capacity.
304	Calibration error. Calibration cannot proceed when environmental noises are too strong. Please calibrate in a stable environment free of wind, vibration, etc.
904	Password error (the default password is 0000)
_H2O	Water in the Power button
H2O_	Water in the Tare button
_H2O_	Water in the Power button and Tare button

Update mode

Display Code	Description
UPdAt E	The scale is in update mode. **Note: If you want to leave update mode, please connect the scale's USB to a power source.**

Specifications

Model	AC002
Product Weight	70 g ± 5 g
Product Dimensions	W: 65 mm L: 65 mm H: 13 mm
Maximum Capacity	500 g / 17.63 oz
Minimum Weight	0.01 g
Measuring Units	g / oz
Readability	0.01 g / 0.05 g
Repeatability	0.01 g / 0.05 g
Linearity	1 d / 2 d (d = 0.01 g / 0.05 g)
Indication Limit	515 g / 18.16 oz
Power Supply	5 V / 500 mA
Battery	Lithium-ion rechargeable 3.7 V 310 mAh
Battery Life	Up to 7 hours
Display	LED
Material	Aluminum, Acrylic
Connectivity	Bluetooth 4.0
Warranty	1 Year
Inside the Package	Pyxis Ultralight Weighing Scale (Black) x 1 Pyxis Carrying Case x 1 Micro USB Charging Cable x 1 Acaia Calibration Weight 100 g x 1