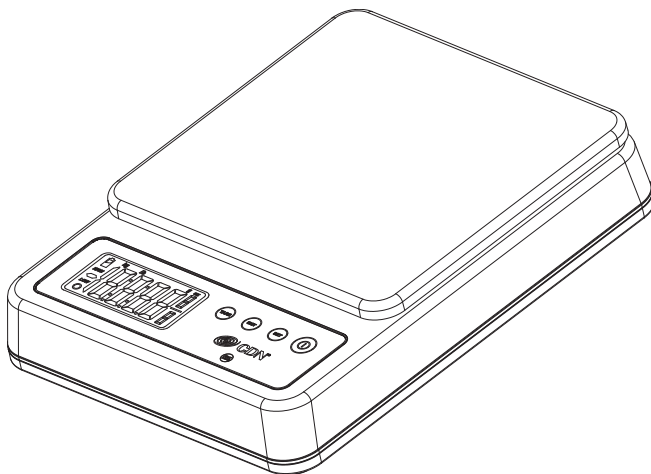# ProAccurate® Submersible Scale

Kitchen Measurement Tools

11 pounds/5 kilograms/176 ounces
by pounds:ounces, ounces, fractional ounces and grams

Features

- NSF® Certified
- Submersible (IP67: protected from water up to 3 feet for 30 minutes, completely protected against dust)
- Programmable
- Tare function
- Backlit display
- Field calibration
- Low/high limit alerts
- Selectable units
- Stability indication
- Overload indication
- Battery status indication
- Stainless steel housing
- Removable stainless steel platform
- On/off button
- Auto-off after 2 minutes, programmable to 5 minutes; disabled when AC adapter used
- Platform Size: 7.2 W x 6.7 H (in)/18.2 W x 17.0 H (cm)
- Resolution: 0 lb:0.1 oz, 0 lb:1/8 oz, 0.005 lb, 0.05 oz, 1/8 oz, 1 g
- Rechargeable battery: 4.8V 1800mAH (built-in)
- Power Adapter: 100-240VAC 50/60Hz input, 9V DC (1000mA) output (included)

Note: Clean the scale before each use.

Note: In the following instructions, names of the control buttons are shown in CAPS. Function information that appears on the display is shown in **BOLD CAPS**.

Power Adapter

Before using the external power adapter, make sure that the printed voltage complies with the local voltage.
Note: Use only an original CDN power adapter (AD-AC1110). The use of other adapter is subject to approval by CDN.

1. Insert the adapter plug into the jack in the rear of the scale.

2. To turn the scale on, press the POWER button (⏻) as described in *Section A: On/Off*. The scale will remain on until turned off.
   Note: When the power adapter is plugged in, the auto-off feature is disabled.

Charging the Battery

The **LOW BATTERY** icon (🔋) and **bAtt** appear on the display when battery status is low and needs to be charged. The **LOW BATTERY** icon (🔋) flashes continuously while charging. The battery is built-in and does not need to be replaced.

1. Insert the adapter plug into the jack on the back of the scale. Allow the scale to charge for 5 hours. The scale will then operate continuously for approximately 14 hours

Operating Instructions

Place the scale gently on a hard and flat surface and make sure it is steady before use to obtain accurate measurements.

A. On/Off

- A. Press the POWER button (⏻) to turn on. The display flashes all segments and then returns to zero.
- B. The STABILITY icon (○) appears in the lower left corner of the display when the weight is stable.
- C. Press the POWER button (⏻) to turn off.

B. Auto Off

The scale automatically turns off after 2 minutes of inactivity.
Note: Auto-off is disabled when the AC adapter is used.

C. Backlit Display

Press and hold the UNIT button for 3 seconds to turn the backlit display on and off.

D. Unit Selection

Press the UNIT button to select the desired unit. The display cycles through **g**, **lb:oz**, **lb:/oz**, **lb**, **oz**, and **/oz**.

E. Tare

The tare function resets the scale display to zero in order to measure only the weight of an item. It is frequently used to subtract the weight of containers.

1. When the scale is on, place a container on the platform.
2. Press the TARE button to reset the display to zero.
3. Place the item into the container or directly on the scale platform. The weight of only the last item added will appear on the display.
4. Continue to repeat steps *2.* and *3.* to measure the respective weights of additional items.
5. To clear the tare, remove all items from the platform and press the TARE button. The display is reset to zero.

F. Low/High Limit Alerts

The scale may be set to alert you when an item's weight is under or over a set limit.

1. Press and hold the TARE button for 3 seconds. The scale beeps as **LOW** and the zero weight appears on the display.
2. Place a weight equal to the low weight limit on the platform and press the SET button. A beep indicates that the low limit is set.
3. **HIGH** appears on the display. Add weight to the platform until the weight is equal to desired high weight limit. Press the SET button. A beep indicates that the high limit is set.
4. Remove all items from the platform.
5. An alert will now sound if an item placed on platform is over or under the set limits. **LOW** or **HIGH** appears on the left side of the display when these conditions exist.
6. To clear the Low/High limits, press both SET and TARE buttons simultaneously.

G. Field Calibration

1. When scale is off, press and hold POWER button (①) until the scale turns on. When all segments are on, release the POWER button (①) and press the UNIT button 3 times within one second. The display shows **11111**, then **55555**, and then the version number and checksum appear before resetting to zero.
2. Making sure there is no load on the platform, press the SET button to save the zero value.
3. Put a 5 kg calibration weight on the platform.

4. Press the SET button again to start the auto-calibration. The scale shows **5000 g** and then **CAL** before automatically turning off. The calibration is complete.

H. Battery Status

Low Battery: Battery status is low and needs to be charged. See *Charging the Battery* on page 1.

I. Error Messages

oL indicates an overload when the item being measured exceeds the capacity of the scale. Immediately remove the overweight item to avoid causing permanent damage to your scale.

J. Programmable Modes

The scale has been pre-configured at the factory and should not require configuration for use in most applications. In the event that the factory settings do not meet the requirements of your application, the following describes the steps to configure the scale.

1. Units

The scale has been pre-configured at the factory for six units of measure. In the event that these do not meet the requirements of your application, the following describes the steps to limit the number of unit choices available. The sequence of units is **lb:oz**, **lb:/oz**, **lb**, **oz**, **/oz** and **g**.

a. Press the POWER button (①) to turn on.
b. Press and hold the SET button for 3 seconds. When **SEt** appears on the display, release the SET button to enter the configuration mode. **UNIT** appears on the display.
c. With **UNIT** appearing on the display, press the SET button to select **lb/OZ** (pounds/ounce) units (11 lb @ 0.1 oz). Both the unit and its status appear on the display.
d. Press the UNIT button to toggle between **ON** (enabled) and **OFF** (disabled).
e. Press the SET button to confirm the status and to select the next unit in the sequence.
f. Repeat steps *d.* and *e.* for each respective unit. Upon confirming the status for **g**, **UNIT** appears on the display.
g. Press the UNIT button three times. **END** appears on the display.
h. Press the SET button to save the settings and return to weighing mode.

2. Auto Off

The scale has been pre-configured at the factory to automatically turn off after 120 seconds (2 minutes) of inactivity. In the event that your application requires longer shut-off times or none at all, the following describes the steps to configure this feature.

a. Press the POWER button (⓪) to turn on.

b. Press and hold the SET button for 3 seconds. When **SEt** appears on the display, release the SET button to enter the configuration mode. **UNIT** appears on the display.

c. With **UNIT** appearing on the display, press the UNIT button. **AOFF** appears on the display.

d. Press the SET button to begin selection of the auto off time (in seconds). **120** appears on the display.

e. Press the UNIT button to cycle through the selections: **120**, **180**, **240**, **300** or **OFF**.

f. When the desired time is displayed, press the SET button to confirm the selection. **AOFF** appears on the display.

g. Press the UNIT button twice. **END** appears on the display.

h. Press the SET button to save the settings and return to weighing mode.

3. Gravity Compensation

The gravity compensation for your scale has been pre-configured at the factory and should not require changing in most locations. In the event that the factory settings do not meet the requirements of your location, contact CDN for the value for your location. With GrAu enabled, the scale will use the default value of 9.797. If the GrAu is disabled, the scale will use the value obtained from CDN and entered by the operator for the gravity compensation.

a. Enabling/Disabling Gravity Compensation

1.) Press the POWER button (⓪) to turn on.

2.) Press and hold the SET button for 3 seconds. When **SEt** appears on the display, release the SET button to enter the configuration mode. **UNIT** appears on the display.

3.) With **UNIT** appearing on the display, press the UNIT button twice. **GrAu** appears on the display.

4.) With **GrAu** appearing on the display, press the SET button again to enable the gravity compensation. **ON** appears on the display.

5.) Press the UNIT button to toggle between **ON** (enabled) and **OFF** (disabled).

6.) Press the UNIT button again to disable the gravity compensation. **OFF** appears on the display.

7.) Press the SET button to confirm the selection. **GrAu** appears on the display.

8.) Press the UNIT button. **END** appears on the display.

9.) Press the SET button to save the settings and return to weighing mode.

b. Gravity Compensation Value Editing

Contact CDN for the value to enter for your location.
Note: Gravity compensation must be disabled for this value to take effect.

1.) Press and hold the UNIT button and press the POWER button (⓪) to turn on the scale and enter the value editing mode. **9.797** (or the current value) appears on the display.

2.) Press the TARE button to choose a number from **0** to **9** to enter the desired gravity value.

3.) Press the UNIT button to move to the next digit to the right.

4.) Repeat steps *2.)* and *3.)* for the remaining digits.

5.) Press the SET button to confirm the entered gravity value and return the scale to the normal operating mode.

Note: Clean the scale platform before each use.

Note: Replacement AC adapter, removable platform and 5 kg calibration weight available.

Usage Guidelines

- Scales are precision instruments and must be handled with extreme care.
- Battery technology works best at room temperature.
- Place the scale gently on a hard and flat surface and make sure it is steady before use.
- The maximum capacity of the scale is 11 lb/5 kg, which is the capacity before using the tare function.
- Do not place overweight items on the scale.
- Store the scale in a position that keeps it free from any load bearing weight. Storing the scale with pressure on the load cells can distort the weight measurements over time.
- Hold the scale from the bottom when moving.

Care of Your Product

- **IP67** — protected from water up to 3 feet for 30 minutes, completely protected against dust.
- Wipe clean with a damp cloth.
- Store the scale at room temperature between 32 to 104°F/0 to 40°C.

Note: This device could be sensitive to electrostatic discharge. If electrostatic discharge or malfunctioning occurs, please re-install the battery to reset this unit.

Precautions

· Keep the scale and/or adapter away from children.

· Do not clean the scale with abrasive or corrosive compounds, which may scratch the surface and corrode the electronic circuits.

· Do not subject the scale to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and/or distorted parts.

· Do not tamper with the scale's internal components. Doing so will invalidate the warranty and may cause unnecessary battery damage and/or distorted parts.

· Do not subject the scale to excessive exposure to direct sunlight.

· **IP67** — protected from water up to 3 feet for 30 minutes, completely protected against dust.

· To avoid deformation, do not place the unit in extreme temperatures.

· Always read the user manual thoroughly before operating.

Specifications

Measurement Range	11 lb/176 oz/5000 g
Unit of Measure	lb/oz/g
Resolution	0 lb:0.1 oz, 0 lb:1/8 oz, 0.005 lb, 0.05 oz, 1/8 oz, 1 g
Operating Range	32°F~104°F/0°C~40°C/≤90% RH
Water Resilience	**IP67** – protected from water up to 3 feet for 30 minutes, completely protected against dust
Accuracy	2 kg ± 6g; 5 kg ± 15g
Power Supply	4.8V 1800mAH built-in rechargeable battery; AC Adapter: 100-240VAC 50/60Hz input, 9V DC (1000mA) output
Platform Dimensions	7.2 W x 6.7 H (inches)/18.2 W x 17.0 H (cm) inside edge, removable
Product Dimensions	7.6 W x 9.8 H x 2.2 D (inches)/ 19.3 W x 24.9 H x 5.6 D (cm)
Weight	77.6 oz / 2199.9 g
Accessories	AC Adapter (AD-AC1110); Removable stainless steel platform (AD-PF1110); 5 kg calibration weight (WT05)

For more detailed information on our products, please visit www.CDNkitchen.com

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