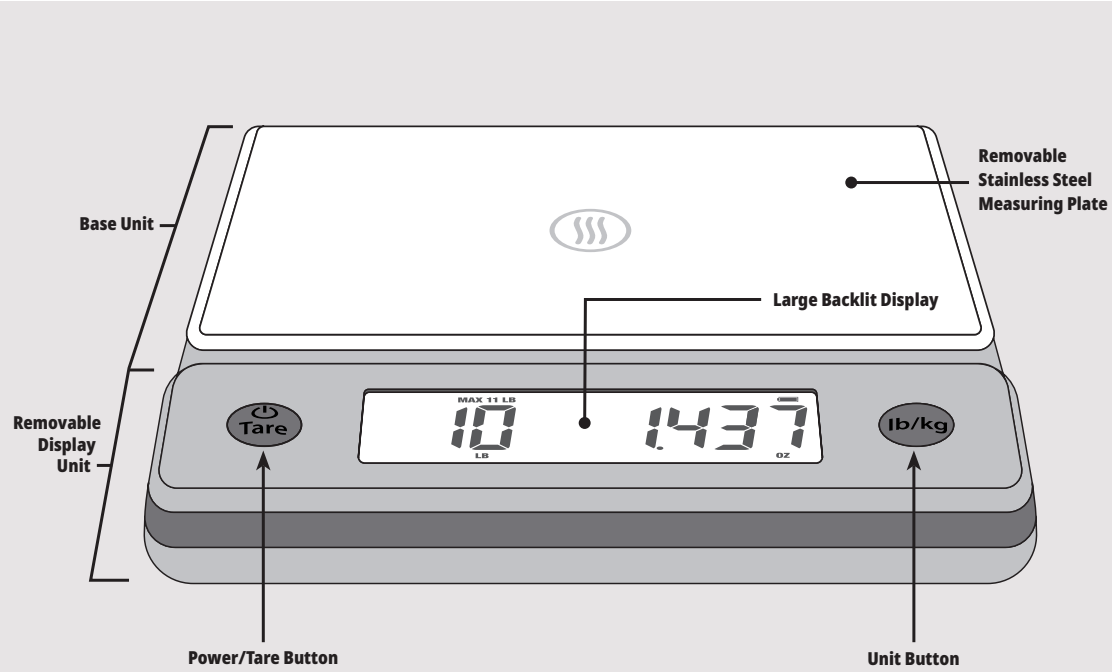
Gravitas™ Quick Start Guide and Operating Instructions



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Start Up Guide

Power On

Press the power button to turn Gravitas on. The backlight will illuminate for 15 seconds and the display will implement a 3-second countdown. Gravitas is now ready to use.

Switching Units

Press the **[lb/kg]** button to toggle between metric and imperial units.

Modes:

- Ounces only: 0.0 oz
- Pounds and Ounces: 0 lb 0.0 oz
- Grams only: 0 g
- Kilograms and Grams: 0 kg 0 g
- **High Resolution** - Ounces only: 0.000 oz
- **High Resolution** - Pounds and Ounces: 0 lb 0.000 oz
- **High Resolution** - Grams only: 0.0 g
- **High Resolution** - Kilograms and Grams: 0 kg 0.0 g

Taring

Press the **[Tare]** button to reset the current reading to zero.

Power Off

- **Manual:** Press and hold the power button for 3 seconds.
- **Automatic:** Display will power off automatically after 5 minutes of inactivity and go into Standby. After 15 minutes, the memory will be cleared, and Gravitas will turn off completely. To use again, Gravitas will need to be turned on using the on/off button.

Backlight

The backlight activates for 15 seconds whenever Gravitas is powered on or a weighing operation is in progress.

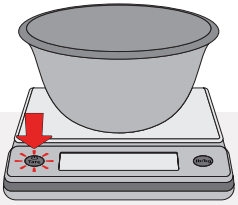
Standby and Memory

After 5 minutes of inactivity, the display will switch to standby mode, and the memory will be retained. If the weight changes or the on/off button is pressed, the display will turn back on and show the current weight. After 15 minutes of inactivity, the memory will be cleared, and Gravitas will turn off completely.

Display

Display can be removed from the base unit for better visibility when a large container is placed on the measuring plate.

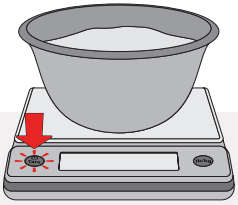
Using the Tare Function (Zeroing and Adding Weight):



Put the container on Gravitas. Press the **[Tare]** button to "zero out" the display and offset the weight of the container.



Add ingredients to the bowl.



The **[Tare]** button can also be used to weigh multiple ingredients consecutively without removing items from Gravitasa. Simply press **[Tare]** to zero out the bowl and the last ingredient before you add the next ingredient.

Tips for Best Results

1. **Surface and Placement**
   - **Level and Rigid:** Always place the base unit on a flat, hard, and stable surface. Soft surfaces like towels or uneven countertops can absorb weight and lead to inaccurate readings.
   - **Avoid Vibrations:** Keep Gravitas away from vibrating machinery, fans, or heavy foot traffic, as the high-sensitivity sensor (0.1 g resolution) may pick up these micro-vibrations.
   - **Center the Load:** For the most precise measurement, always place the item being weighed in the exact center of the stainless steel measuring plate. Off-center loading can introduce small margins of error.
2. **Environmental Stability**
   - **Temperature Acclimation:** If Gravitas has been stored in a very cold or hot area, allow it to sit at room temperature for at least 30 minutes before use. The internal components are sensitive to the temperature range of 32 to 122°F (0 to 50°C).
   - **Draft Prevention:** In high-precision mode, even a strong breeze from an air conditioner or an open window can cause the display to drift. Use Gravitas in a "still air" environment if possible.
3. **Wireless Connectivity**
   - **Line of Sight:** While the wireless range is up to 65 feet (20 meters), keeping the display and base unit within a clear line of sight will ensure better connection.
   - **Interference:** Keep the units away from large metal objects or other 2.4G wireless devices (like microwave ovens or some routers) if you experience the "Err" symbol frequently.
4. **Proper Taring Technique**
   - **Zeroing:** Always ensure the display reads "0.0" before placing an item on the measuring plate.
   - **Container Weight:** If using a bowl or container, place it on Gravitas first, wait for the reading to stabilize, and then press the **[Tare]** button. This ensures you are only measuring the weight of the contents, not the container.
5. **Maintenance for Longevity**
   - **Battery Health:** Replace batteries as soon as the low battery icons appear. Low voltage can sometimes cause the sensor to transmit inconsistent data.
   - **Cleanliness:** Keep the space between the stainless steel measuring plate and the sensor body free of debris. Small particles trapped under the tray can physically "jam" the sensor, resulting in lower-than-actual weight readings. Do not place the stainless steel measuring plate in the dishwasher.
   - **Storage:** Do not store objects on the stainless steel measuring plate as the constant pressure can damage the sensors and cause inaccurate measurements over time.

Battery & Maintenance

- **Requirements:**
  - **Display:** 2 x 1.5V AA alkaline batteries.
  - **Base Unit:** 4 x 1.5V AA alkaline batteries.
- **Water Resistance:** Ensure the battery cover is tightened securely after replacement to maintain the water resistance rating (IP67 for display, IP66 for base unit).
- **Temperature Limits:** Only operate Gravitas between 32°F to 122°F (0°C to 50°C) to avoid damage or inaccurate readings.

Calibration Procedure

If calibrating Gravitas for local gravity, follow these steps:

Items Required

- M2 Class or higher 1 kg weight

Calibration Steps

- **Enter Calibration Mode:** Press and hold two buttons simultaneously for 10 seconds until the display shows "---1000---".
- **Exit without Changes:** If you find you have accidentally entered Calibration Mode and want to exit without making any changes, press the same two buttons for 10 seconds to exit the mode without calibrating.
- **Calibrate:** Place a 1 kg weight exactly at the center of the measuring plate. The device will self-calibrate and exit the mode automatically. The backlight will turn on and the display will read 1000.0 G when the calibration process has completed. Gravitas will return to normal operation.

Clear Calibration

(Note: Use this only if an error occurs during calibration; this clears any previous calibration values and resets the device to the target local gravity of 9.8010 m/s^2 that was set at the factory.)

- Press and hold the **[lb/kg]** button for 10 seconds. The display will show "CLEAr and donE".
- Restart Gravitas to finish the process. You may then begin the calibration process again.

Error Symbols & Troubleshooting

Symbol	Meaning	Required Action
	Display battery is low.	Replace the 2 AA batteries.
 SCALE	Sensor battery is low.	Replace the 4 AA batteries.
- - - - - - - - -	Overload (exceeds 5 kg/11 lb).	Remove weight immediately.
Err	Out of wireless range.	Move display within 20 meters of base unit.

Scan for tips, recipes, and user guides for Gravitas

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IC: 22116-5800A, IC: 22116-5800B

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This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
This device complies with Industry Canada Licence-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
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