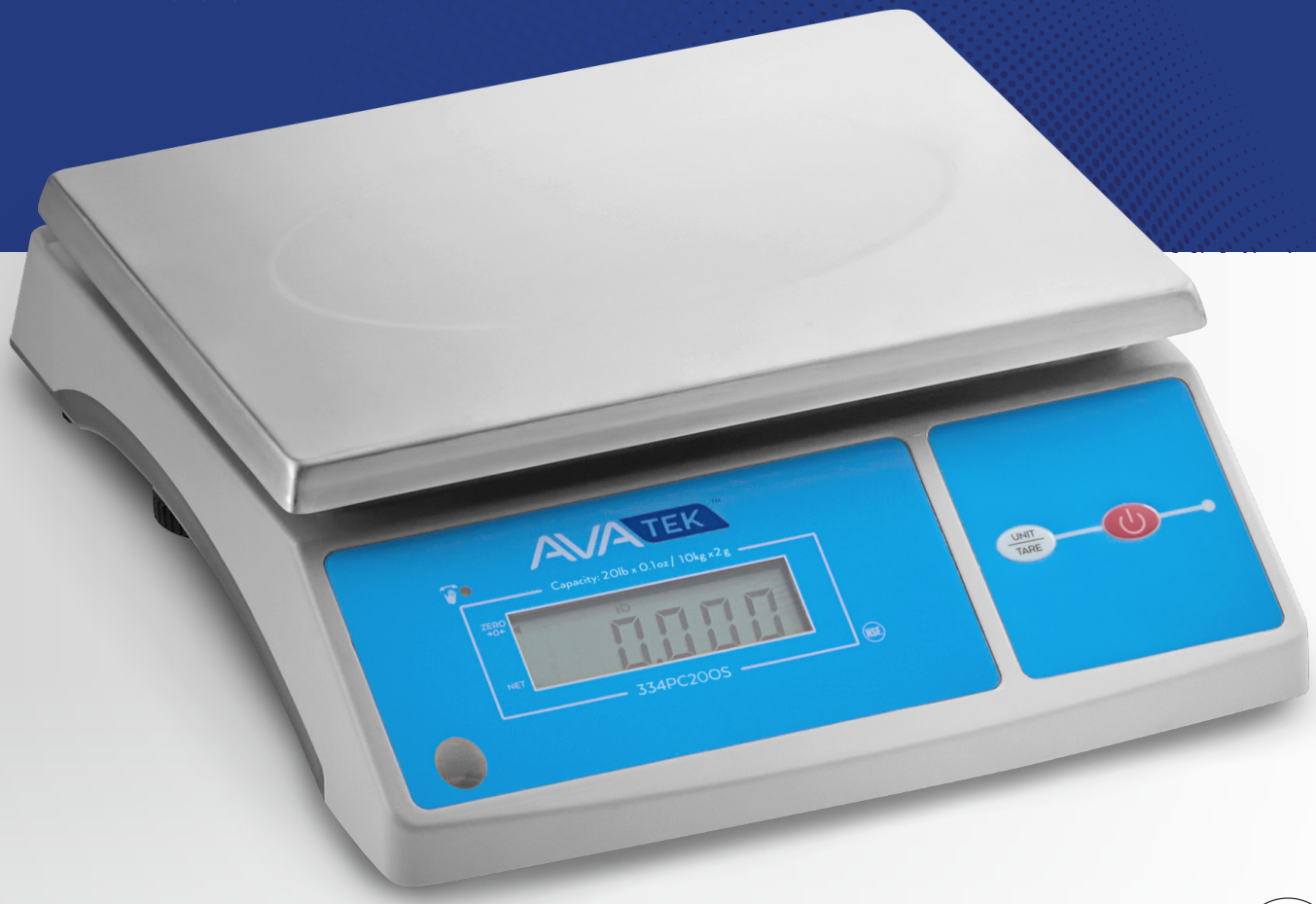
AVATEK

**USER MANUAL**

12/2025

# Digital Portion Control Scales

## with Oversized Platform




NSF

| 334PC100S | 334PC200S | 334PC400S | 334PC600S |
|---|---|---|---|
| **10 lb.** | **20 lb.** | **40 lb.** | **60 lb.** |

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# General & Safety Information

**Risk of electric shock: disconnect all power sources before making cable connections to the floor scale platform or indicator.**

**For use in dry environments only.**

**The floor scale platform is very heavy. Use appropriate lift equipment.**

**Scale platform must be installed on a foundation capable of safely supporting the weight of the floor scale plus the weight of the maximum load.**

**Do not operate in hazardous areas.**

- Read & understand all operating instructions before using this product.
- Keep this manual for future reference.
- Record the weight shortly after placing a load on the platform. After extended periods, the load cell's output signal may result in a less accurate reading.
- Avoid extended exposure to extreme heat or cold. Optimum operation is at normal room temperature. See operating temperature range in the specifications table. Allow the scale to acclimate to room temperature before using.
- Allow sufficient warm up time. Turn the scale on and allow up to 2 minutes for internal components to stabilize before weighing.
- Electronic scales are precision instruments. Do not operate near cell phones, radios, computers or other electronic devices that emit radio frequencies that may cause unstable readings.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.
- Avoid using in heavy vibration or heavy airflow conditions. This also applies when the floor scale is integrated into conveying systems.

# Specifications

| Model | | 334PC100S | 334PC200S | 334PC400S | 334PC600S |
|---|---|---|---|---|---|
| Capacity / Division | oz. | 160 oz. x 0.05 oz. | 320 oz. x 0.1 oz. | 640 oz. x 0.2 oz. | 960 oz. x 0.2 oz. |
| | lb. | 10 lb. x 0.05 oz. | 20 lb. x 0.1 oz. | 40 lb. x 0.2 oz. | 60 lb. x 0.2 oz. |
| | lb. : oz. | 10 lb. : 0.0 oz. x 0.05 oz. | 20 lb. : 0.0 oz. x 0.1 oz. | 40 lb. : 0.0 oz. x 0.2 oz. | 60 lb. : 0.0 oz. x 0.2 oz. |
| | kg | 4.5 kg x 0.001 kg | 10 kg x 0.002 kg | 20 kg x 0.005 kg | 30 kg x 0.005 kg |
| | g | 4,500 g x 1 g | 10,000 g x 2 g | 20,000 g x 5 g | 30,000 g x 5 g |
| Resolution | | 1 : 6000 | 1 : 7500 | 1 : 4000 | 1 : 6000 |
| Construction | | ABS base, stainless steel platter | | | |
| Weighing Units | | kg / g / lb. / oz. / lb. : oz. | | | |
| Display | | 1-Window backlit LCD display, 11/16"H (17.5mm), 5 1/2" digits, 7-segment | | | |
| Zero Range | | Power-on zero range: Calibration zero point ±20%FS;<br>ZERO ket range: Power-on zero ±5% FS | | | |
| Tare Range | | Up to 100% FS | | | |
| Stabilization Time | | <3 seconds | | | |
| Operating Temp. | | 41°F - 95°F (5 - 35°C) | | | |
| Humidity Range | | <90% relative humidity, non-condensing | | | |
| Power | | Alkaline Batteries: 4 x "AA" size cells<br>AC Adapter: 9Vdc/600mA, central positive | | | |
| Max Overload | | 150% of capacity | | | |
| Platform Dimensions | | 11 3/4" x 9" (L x W) \| 298 x 229mm (L x W) | | | |
| Base Dimensions | | 11 11/16" x 13 1/2" x 4 5/8" (L x W x H) \| 297 x 343 x 118mm (L x W x H) | | | |

# Contents

- Scale
- Manual
- C9V 600mA Power Adapter
- (4) AA Batteries

# Setup

1. Remove the scale from the box and place it on a firm, level surface. Avoid locations with rapid temperature changes, excessive dust, moisture, air currents, vibrations, electromagnetic fields, heat or direct sunlight.
2. Adjust the leveling feet until the bubble is centered in the circle of the level indicator (located on the front panel) (Fig. 1).
   **NOTE:** Ensure that the scale is level each time its location is changed.

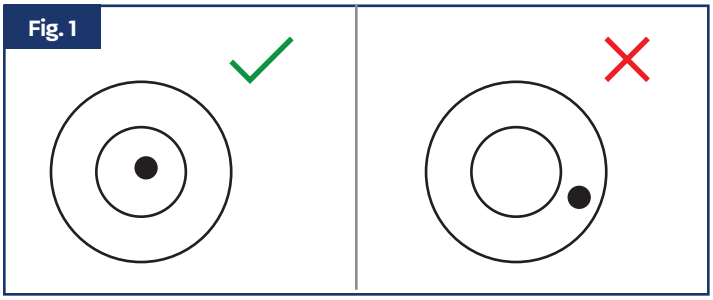
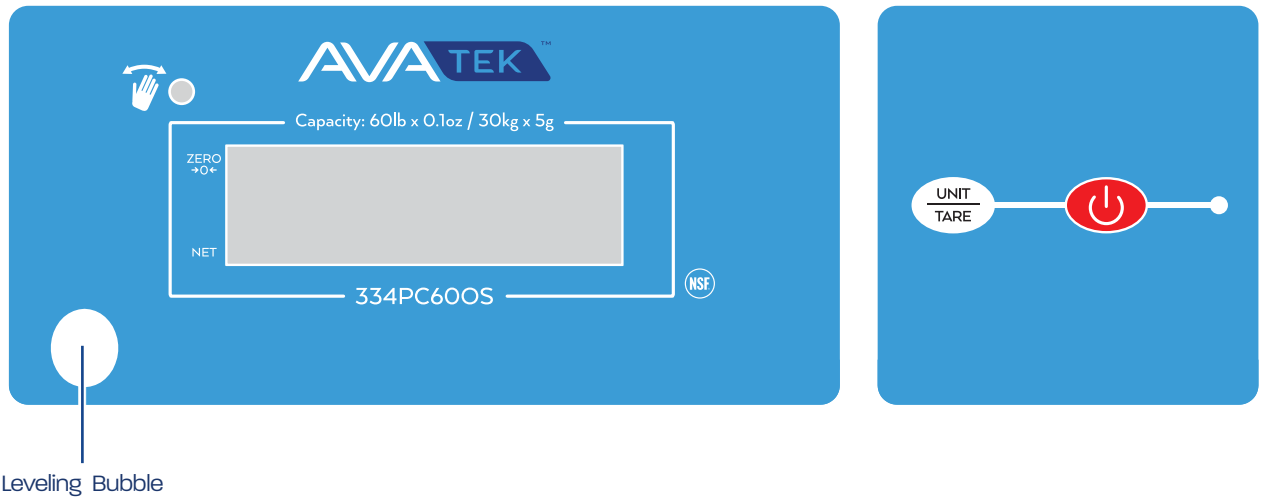


Fig. 1

3. The internal rechargeable battery should be fully charged for up to 12 hours before using the scale for the first time.
4. Connect the supplied AC adapter to the power input receptacle underneath the scale. Plug the AC adapter into a properly grounded power outlet. The battery will begin charging.
5. If the scale will be stored or transported in the future, save the packaging material to ensure the best possible protection for the scale.

# Function Keys & Display




## Function Keys

| Keys | Function | Definition |
|---|---|---|
| **ON/OFF/ZERO** | Short Press (Unit OFF) | Power ON the scale. |
| | Short Press (Unit ON) | Set display to zero. |
| | Long Press (Unit ON) | Power OFF the scale. |
| **UNIT \| TARE** | Short Press | Tare the weight. |
| | Long Press | Switch between unit of measurement. |

## Display Characters

| Digit | Symbol | Digit | Symbol | Digit | Symbol | Digit | Symbol | Digit | Symbol | Digit | Symbol |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 6 | 6 | C | C | I | I | O | o | U | U |
| 1 | 1 | 7 | 7 | D | d | J | J | P | P | V | v |
| 2 | 2 | 8 | 8 | E | E | K | K | Q | q | W | w |
| 3 | 3 | 9 | 9 | F | F | L | L | R | r | X | H |
| 4 | 4 | A | A | G | G | M | n | S | 5 | Y | y |
| 5 | 5 | B | b | H | H | N | n | T | t | Z | 2 |

# Operation & Settings

## Power ON / Power OFF

1. Place the scale on a flat, stable surface. Level the scale using the leveling bubble at the lower left side of the display.
2. With the weighing platter empty, press the **ON/OFF/ZERO** key to power on the scale. The self-check will run, show the version number "***V02***", display full capacity e.g. "***F15.000kg***", the scale will display a zero reading.
   **NOTE:** The proper (power-on zero-point) range is: (calibration zero-point) ±20% FS.
3. To power off the scale, press and hold **ON/OFF/ZERO** key.

## Zeroing the Display

1. You can press the **ON/OFF/ZERO** key at any time to set the zero point from which all other weighing is measured. When the zero point is obtained, the display will show the indicator for zero.
2. **ZERO** key range is (power-on zero-point) ±5% FS. ZERO function is only activated when the scale is in steady weighing mode and this also clear the recorded tare weight, the ZERO indicator will be lighted on, "NET" indicator will be off. ZERO function will be not activated when the current weight is not in the range of (power-on zero-point) ±5% FS, and it will display "***0-----***" or "***0_____***", then back to previous weight reading.

## Normal Weighing Mode

- When scale is powered on and back to 0, place the weighing objects on the platform. The display will show the weight and the units of weight currently in use.

## Taring

1. Zero the scale by pressing the **ON/OFF/ZERO** key if necessary when reading is stable. The zero indicator will be on.
2. Place a container on the platform, a value for its weight will be displayed.
3. Press the **TARE/UNIT** key to tare the scale. The weight that was displayed is stored as the tare value and that value is subtracted from the display, leaving zero on the display. The "**NET**" indicator will be on. As product is added only the weight of the product will be shown. The scale could be tared a second time if another type of product was to be added to the first one. Again only the weight that is added after taring will be displayed.
4. When the container is removed a negative value will be shown. If the scale was tared just before removing the container this value is the gross weight of the container plus all product that was removed. The zero indicator will also be on because the platform is back to the same condition it was when the **ON/OFF/ZERO** key was last pressed.
   **NOTE:** TARE range for this scale is up to 100%FS.

## Switching Unit Of Measurement

- In normal weighing mode, press and hold Tare/Unit key to switching the measuring units between lb, kg, g, oz, lb:oz.

## Calibration

1. Prepare standard weights, and make the scale with no load.
2. When the scale is off, press and hold down **TARE/UNIT** button, and then press **ON/OFF/ZERO** button at the same time until "***CAL-O***" appears. Release the two buttons.
3. Be sure no weight on the scale, and press **ON/OFF/ZERO** button, "***0***" in "***CAL-O***" will be flashed.
4. When "***CAL-F***" is displayed, press and hold **TARE/UNIT** button to choose the unit (kg or lb) of standard weight in calibration; load full capacity weight on the platter. Then press **ON/OFF/ZERO** button, "***F***" in "***CAL-F***" will be flashed.
5. When "***CAL-O***" appears again, remove the weight from the platter, and then press **ON/OFF/ZERO** button. "***0***" in "***CAL-O***" will flash.
6. When calibration has been completed properly, the scale will reset to normal working mode. If "***CAL-ER***" displays, that means there is an error in calibration, and needs to be re-calibrated.
7. In step 3-5, press and hold **ON/OFF/ZERO** to exit during the calibration mode.

## Auto-Off and Backlight Setting Function

1. When the scale is on, press and hold **TARE/UNIT** and **ON/OFF/ZERO** buttons till SETUP is displayed, then the "***AOFF_XX***" is displayed (***XX***=0,1...9: means when the scale has no weight changing and no key pressed for 1...9 minutes, the scale will auto power off to save battery power, when x=0, means no auto-power off function). Now, press **TARE/UNIT** button to choose the auto-off time and press **ON/OFF/ZERO** button to confirm and save the setting.
2. The scale will display "***BLT.X***" (***X***=0, 1, 2. 0 means backlight always off, 1 means backlight always on, 2 means backlight will be on when any button is pressed or reading changes). Press **TARE/UNIT** button to choose the backlight mode and press **ON/OFF/ZERO** button to confirm and save the setting.

# Display Symbol Meaning

| Parameter | Definition |
|---|---|
| ***0-----*** | Power-on zero-point is over (calibration zero-point) +20%FS) when scale is turned on, or the reading weight is over (power-on zero-point) +5%FS when pressing ZERO button |
| ***0_____*** | Power-on zero-point is below (calibration zero-point) -20%FS) when scale is turned on, or the reading weight is + (power-on zero-point) -5%FS when pressing ZERO button |
| ***------*** | The current weight is over 100% FS+9d |
| ***CAL-0*** | Zero point at calibration |
| ***CAL-F*** | Full capacity at calibration |
| ***CALER*** | Calibration error |
| ***EEP ER*** | EEPROM accessing error or data in EEPROM is error or not in their normal range |
| ***LO.BAT*** | The voltage of internal working is below 5.7V(+0.1V) |

# Troubleshooting

| Symptom | Probable Cause | Remedy |
|---|---|---|
| Scale does not turn on. | • Power cord is not plugged in or properly connected.<br>• Power outlet not supplying electricity.<br>• Battery is low. | • Check power cord connections.<br>• Make sure power cord is plugged into the power outlet.<br>• Check power source.<br>• Replace batteries.<br>• If none of the above resolve the issue, service may be required. |
| Unable to zero the display or will not zero when turned on. | Load on scale exceeds allowable limits. | Remove load on scale. |
| | Load on scale is not stable. | Wait for load to become stable. |
| | Load cell damage. | Service required. |
| LO.BAT is shown. | Battery is low. | Replace with new batteries. |