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1 Introduction

Plate waste is tracked using the SmartKitchen Waste Scale, which has the Plate Waste application installed. The waste scale consists of a scale and a touchscreen (Android tablet).

The amount of plate waste is visually displayed to restaurant customers, while the data is simultaneously recorded in the SmartKitchen service, where it can be analyzed.

2 Preparations

Place the scale and tablet in their designated positions. Set the scale on a flat surface so that all three feet make firm contact. Position the touchscreen close to the scale on a table or mount it on the wall. Connect both devices to a power source and make sure the green indicator light on the side of the scale is on. A “Plate Waste” item has already been created in the service. If you want to use a different item, create it in advance in the SmartKitchen service.

Turn on the touchscreen: Press and hold the power button for a few seconds until the device vibrates and the logo appears on the screen. If your service includes a SIM card, the device will automatically connect to the internet. Alternatively, you can connect it to your company's WiFi network.

The Plate Waste application will start automatically after approximately 20 seconds and log in directly to your account. The tablet is linked to your restaurant account via a QR code, so no separate password login is required. Mobile devices registered via QR code can be managed in the SmartKitchen service under Settings → Mobile devices.

3 PlateWaste app and settings

3.1 Application

The application runs in full-screen mode, which hides the standard menu bar. To access the menu, swipe down from the top-left corner of the screen and tap the three-dot icon.

The menu includes the following functions: Settings, Wi-Fi settings, Check for updates, What's new, Stop tracking, and Log out. At the bottom of the menu, you can see the application's version number.

3.2. Settings

3.2.1 Mandatory settings

1. **Select Waste Scale:** Define which scale the Plate Waste application will use.
2. **Select waste category:** Define the category where plate waste measurements will be stored. Categories and items must be created in the SmartKitchen service before using the application. A “Plate Waste” category has already been created during delivery.

These settings are usually configured during installation. Change them only if necessary, for example, when you start using another scale for plate waste tracking.

3.2.2 Other settings

The following settings can be configured according to your needs:

Set in grams: plate waste limit that should not be exceeded

The red area on the display meter represents the “undesirable” measurement result. This setting specifies the value from which the red zone begins. This limit can be selected between 20 and 200 g.

Set in grams: minimum plate waste to display

Determine how much new weight must be added to the scale before the meter moves. This value should be more than five (5) grams so that no small vibration is displayed.

Set in grams: maximum plate waste to display, exceeding this will mark the result as rejected

Define the weight at which the reading will no longer be displayed and will instead be replaced with an X. For example, if more than 500 g is placed on the scale, an X will appear on the screen.

Set in seconds: view reset for next

Define how many seconds the display pointer shows the increased weight before it resets. It is a good idea to match this value according to the place of use. The default number of seconds in the app may not correspond to the average speed of the plate waste return at the location.

Show weight as number

Displays the amount of waste returned by an individual customer's plate. The numerical weight can be hidden if desired. This is useful when you want the person returning the plate waste to focus more on whether the meter shows a red or green sector. The gram amount may not clearly indicate to the user whether the waste is a lot or a little.

Show total waste

The total amount of waste collected in the waste container is displayed at the bottom of the central circle. This can be hidden if desired.

Full-screen meter: Enable full-screen meter mode

You can enable full-screen meter mode if you do not want to display the general waste information on the right side.

Meter style

Select the meter style: the green area can cover either half of the scale or only one-third of it.

4 Display

- Center of the meter, on white background:
the amount of plate waste returned by the customer.
- Center of the meter, on green background:
the total amount of waste in the waste container.

- **Note:** Since plate waste can be emptied quickly, the last pointer position may remain visible for a short moment even when the application is already waiting for the next measurement to start.
- Small round symbol in the bottom-left corner:
Green when tracking is active. Grey when tracking is inactive.
- Right side of the screen shows the “WebView” which updates automatically from the service. The display shows rotating images, considering themed weeks. These images are provided by SmartKitchen. Customers can request a quote to use own images.

5 Plate waste tracking

The app shows each customer how much plate waste one returned. The app also monitors the total amount of plate waste returned. The total amount of plate waste is recorded to the service in 15 minutes intervals and each time the waste container is emptied.

5.1 Start tracking

- Prepare the biowaste bin and make sure it is placed in the center of the scale.
- When ready, click “Start Tracking.”

You can now begin adding plate waste into the waste bin.

5.2 Emptying the bin and stopping tracking

Tracking ends automatically when you remove the bio-waste bin or waste bag from the scale. The application will briefly display the message “Emptying bin in progress...” and then return to the “Start plate waste tracking” state. Restart tracking as described in the previous step.

If you want to stop tracking manually, open the application menu and select “Stop Tracking.”

6 Updating the application

Open the application menu and select “Check for updates.” If an update is available, update the application to the latest version and follow the on-screen instructions. In the future, you can see the changes included in each update under “What’s New.”

7 Analysing collected data

The data collected by the Plate Waste application can be analysed in the SmartKitchen service under the Food Waste tab.

8 Troubleshooting

8.1 Check first

In case of any problems, first check that the power plugs of the scale and the tablet are connected to the mains and the tablet is switched on. When signing into the app, the tablet must be connected to the internet.

8.2 Exceeding the weight limit

If the maximum weight limit of the scale is exceeded, a message is displayed. "Weight limit exceeded! Empty the biowaste container." The use of the scale may continue normally after the tracking has been stopped and the container emptied.

8.3 Battery protection mode

The tablet is set to "Battery Protection Mode" by default, so the battery charge level does not exceed 60%. So don't worry when your tablet doesn't show 100% charge.

8.4 The app does not show weight

If the app does not display scale readings or does not react to the weight placed on the scale:

- Check that the Bluetooth connection on your tablet is turned on.
- Check that location permissions are allowed for the PlateWaste app on your tablet.
- Check that the correct waste scale and category are selected in the application.

8.5 Scale shows incorrect readings

If the scale shows clearly incorrect measurements:

- Calibrate the scale using the FoodWaste application, which has a separate instruction on how to use it.

8.6 Network connection not available:

- Check the network connection. If the WiFi connection is working, but there is still a network error, check the functionality of the WiFi connection on another device.

8.7 Network connectivity problem: Keep your MAC address constant

- Your company may have a policy that allows devices to have WiFi access to the current network based on their MAC addresses. However, on some devices, the MAC address changes from time to time by default. This can cause problems with your network connection. The MAC address can be standardized in the device settings.

This manual is intended to guide device users. Products may change without notice due to ongoing development. ioLiving Inc./Cerus Inc./SmartKitchen makes no warranties regarding this manual and is not liable for any direct, indirect, incidental, or consequential damage related to its use or the products described.