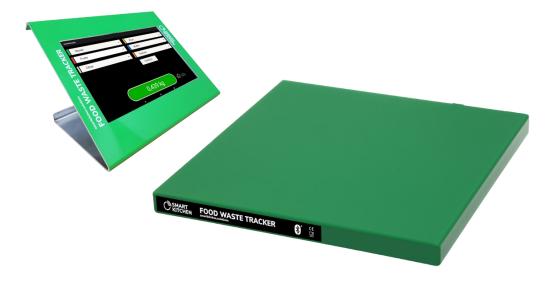**SMART KITCHEN**

SmartKitchen Waste Scale with touch screen

SmartKitchen Waste Scale with touch screen (WSS) is designed for monitoring the food waste in professional kitchens and contract catering companies. There are two different scale models available. The scale is operated with the included Android tablet.

WSS35:
- size 350*350*30 mm
- max. load 35 kg
- repeatability ±10 g

WSS150:
- size 600*600*40 mm
- max. load 150 kg
- repeatability ±50 g

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WASTESCALE WSS

FoodWasteTracker, measurement device and tablet

Intended use

SmartKitchen WasteScale is designed to monitor food waste in professional kitchens and contract catering companies. Based on the collected data, targeted measures can be taken to reduce the amount of waste.

Contents of the sales package

- SmartKitchen WasteScale
- Power supply for the Waste Scale
- Android tablet
- Power supply for the Android tablet
- Tablet accessories: SIM-card and a stand

Cautions

- SmartKitchen WasteScale operates with mains current (AC 100-240V).
- Do not use other power supplies than those provided in the sales package.
- Pay attention to the maximum capacity of the WasteScale. The load on the scale must not exceed the maximum load (35 or 150 kg depending on the scale model) under any circumstances.
- Do not immerse the scale in water or other liquids.
- The scale is splashproof. Use a damp cloth and detergent for cleaning.
- Use protection e.g., a potholder, when weighing hot (over 80 °C) containers.

Deploying the SmartKitchen WasteScale

- Place the scale on a flat surface. The flatness and slope must not differ more than 1.5 cm per 100 cm.
- The scale must be placed in location where it will not be exposed to large temperature changes.
- The scale operates on mains power. Make sure that both the scale and the tablet are powered at the planned location.
- The scale must be activated in the SmartKitchen service.
- The waste categories and items and, , if necessary, the weights of the various containers must be created in the SmartKitchen service before using the scale.

Preconditions

The use of WasteScale requires purchasing the FoodWasteTracker or HACCP for commercial kitchen service license.

1. Activate the WasteScale to your SmartKitchen account. From the "Food waste" menu, select "Scales and manual measuring locations" and Add SmartKitchen scale.
2. Create the waste categories and items in SmartKitchen service. See the more detailed instructions in FoodWasteTracker general guide (smartkitchen.solutions/support)

WASTESCALE WSS
FoodWasteTracker, measurement device and tablet

Device installation

1. Place the scale on a flat surface. Make sure it does not touch the wall or other structures on the sides. It is recommended that the scale is positioned so that the power cord and power indicator LED are on the side of the device.
2. Place the suitable waste container on top of the scale. (If the scale is used so that the weight of the container is selected at the time of entry, this need not be done.)
3. Plug in the power supply of the Android tablet and switch it on.
4. Connect the tablet to the Internet via either WiFi or a SIM card data connection. Note that in some locations, IT support requires the tablet's MAC address to allow its WiFi network traffic. The MAC address of the tablet can be found in the supplied documents.
5. The accessory stand allows the tablet to be mounted on a tabletop or wall.
6. Turn on the scale by plugging in the power supply. The green LED on the side of the scale lights up when the device is ready for operation.
7. Open the "WasteScale" app from the tablet desktop and sign in with your SmartKitchen credentials.
8. Select the correct scale from the settings in the application menu.
9. If the scale does not show 0.000 kg, tare it from the application menu. If the scale does not show 0.000 kg, tare it by pressing and holding the weight reading window on the display. The increasing bar in the window reflects the progress of the tare. When tare is complete, the scale will show 0.000 kg.

USING INSTRUCTIONS

The WasteScale is intended to be used as follows:
- The scale and tablet must be always connected to the mains.
- If the app has shut down, select the "WasteScale" application from the tablet desktop to restart it.
- If the Scale and tablet are turned off and the power supply is disconnected, the scale must be restarted by plugging the power supply back into the electrical outlet.
- Restart the tablet with its power button. The scale does not have a separate power switch.

Making a waste recording with the WasteScale

1. Place the waste item to be weighed in a container on the scale.
2. The weight of the waste item and waste categories created previously in the service will appear on the tablet screen.
3. Select a correct waste category.
4. Select a correct waste item.
5. The measurement result is stored in the SmartKitchen cloud service. The ✓ symbol appears on the screen when the measurement has been saved successfully.
6. When the symbol disappears from the display, the scale is ready for the next waste measurement.
7. Tare the scale if necessary. Note that automatic tare will occur within five minutes if no selections are made.
8. A warning appears on the display when the maximum load of the scale is being reached. Empty the waste container.

Record the waste and automatically reduce the weight of a container

The waste scale is typically used with a waste container on top of the scale into which the waste is poured. Another way is to place the container with the waste directly on the scale. For example, when weighing food leftover from a serving in its own container. The weight of the container is automatically reduced from the weight saved. The containers used for weighing are defined in advance in the SmartKitchen service.

In the SmartKitchen service
Specify the used containers on the Food Waste menu:
Settings → Containers → Add new: Enter the container name and weight. It is possible to add multiple containers.

In the WasteScale touchscreen and WasteApp
Go to the settings, which can be found in the upper right corner under the three dots.
Select "Download new waste items" and the containers you just added will appear in the app.

Using the containers when weighing
Go to the settings under the three dots. Select Cookware or bin and you will find following options to choose from:

1. **Ignore cookware or bin selection:**
   This means that the application will never ask to reduce the weight of the bin. This must be selected when the waste bin is placed on the scale and emptied if necessary.

2. **Always show cookware or bin selection:**
   When this is selected, the application will ask for each weighing, which container or cookware will be subtracted from the weight.

3. **List of containers defined in the service:**
   If you select a container from the list, its weight is automatically deducted from each weighing.

During the recording, the name of the selected container and its weight will also be displayed next to the weight. In other respects, the waste is recorded as described previously.

Calibrating the SmartKitchen WasteScale

The WasteScale is calibrated if its measurement results are suspected to deviate significantly from the correct value. Calibration is a procedure that should only be performed for a valid reason, not just for certainty.

Deviation of the scale measurement results may occur if the measurement is made at a significantly higher or lower temperature than the room temperature. The deviation may also occur over a longer period during normal use. The using frequency of the scale is also notable. If the scale is used continuously, its deviation may increase faster than the scale used occasionally. Dropping the scale or dropping the load on the scale may also cause the need for calibration. Likewise, exposing the device to vibration.

First, confirm the need for calibration by weighing a suitable object with another, accurate and calibrated scale. Check the deviation of the WasteScale by weighing this object before starting the calibration. The scale must be switched on for at least half an hour before starting the calibration.

The WasteScale application guides the user through the calibration process:

1. Log in to the WasteScale app. Make sure the tablet you are using has internet connection and Bluetooth is turned on. Make sure the scale has been on for at least 30 minutes.
2. Select "Start Calibration" from the application menu and follow the on-screen instructions:
   - **Attention! You are about to start calibration**
     WasteScale should only be calibrated if its measurement results are suspected to deviate significantly from the correct values.
   - **Clear scale**
     Make sure that the scale is empty.
   - **Set the calibration weight**
     Set the known weight on the scale. The weight should be at least 10% of the maximum weight of the scale. In other words, the weight used on a 35 kg scale must be at least 3.5 kg and on a 150 kg scale at least 15 kg.
   - **Define weight**
     Enter the exact weight of the calibration object.
   - **Calibration complete**
     Verify the calibration by weighting the same amount that was used to calibrate the scale.
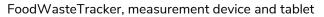
Solutions to the most common problems

1. The scale shows incorrect measurement result for a known weight.
   Solution: Remove the weight and tare the scale from the application menu.

2. The scale still shows incorrect measurement result.
   Solution: Check that there is no debris, stones, etc. under the device that interfere with the measurement. Check that all three feet of the scale touch the floor. Check that the scale is removed from the wall and other structures. Check that there have been no significant changes in the ambient temperature of the scale.

3. Nothing appears on the tablet screen and it does not start.
   Solution: Check that the tablet is plugged in to the power supply and restart if necessary.

4. The scale's power indicator LED is not on.
   Solution: Check that the scale is connected to the power supply and reconnect if necessary.

5. Tablet is not showing the waste weight.
   Solution: Make sure your tablet's Bluetooth is turned on.

6. The waste weighing results are not transferred into the SmartKitchen service.
   Solution: Check the tablet's internet connection.

7. The changes made in the service (waste categories, waste items) are not visible in the application.
   Solution: Close and restart the WasteScale application.

Attention! Changes made in the service (categories, titles, etc.) will apply with a delay. To get the changes immediately in use, restart the application.