KERN & Sohn GmbH
Ziegelei 1
D-72336 Balingen
E-Mail: info@kern-sohn.com
Tel: +49-[0]7433- 9933-0
Fax: +49-[0]7433-9933-149
Internet: www.kern-sohn.com

Operating Instructions
KERN EasyTouch

EasyTouch Dynamic
User manual

Version 1.1
2022-09
GB

Contents

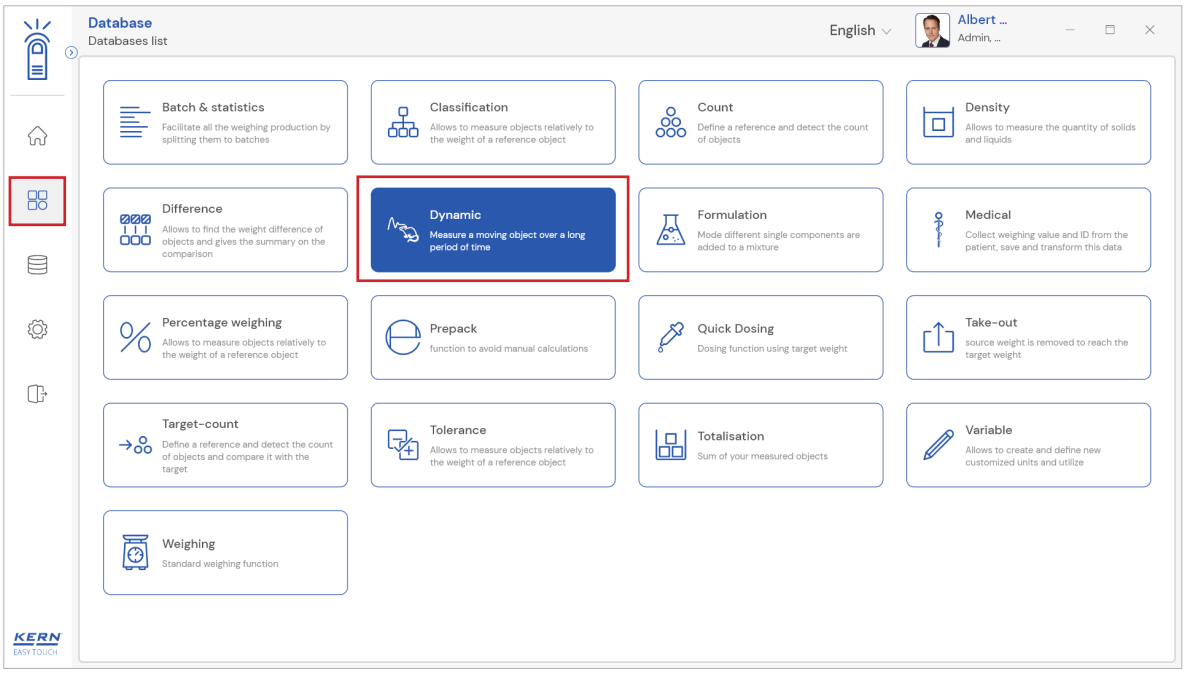
1.0 Introduction to dynamic weighing

This function can be applied for unstable and dynamic objects under non-stationary environmental conditions. For example, animal weighing holds the best example for dynamic weighing.

The balance works out an average weight based on the force exerted by the animal or any moving object over an extended period of time. This way, even if the animal fidgets or moves around, it can easily be weighed.

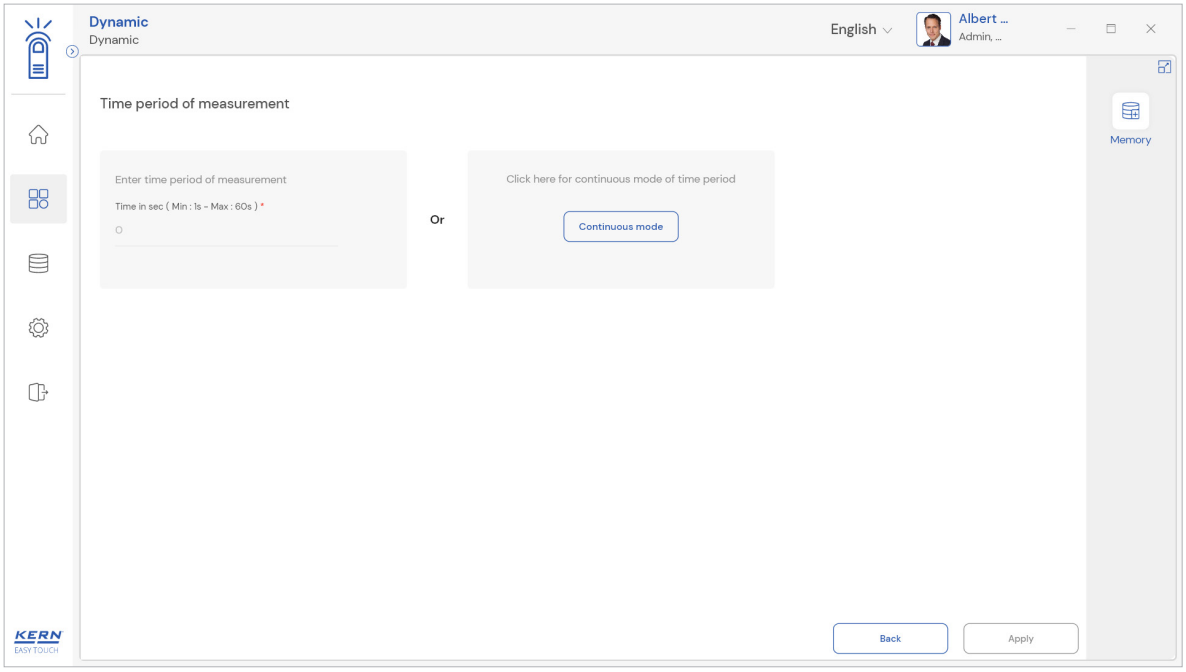
During a defined period, the mean value of the weighing results is formed. The more restless the weighing item, the longer duration should be selected.

- Click on the function menu from the main menu.
- The function list screen will open. Click on the dynamic function from the function list.



- The input screen appears. You can manually enter the duration of measurement in seconds, or you can choose the continuous mode.

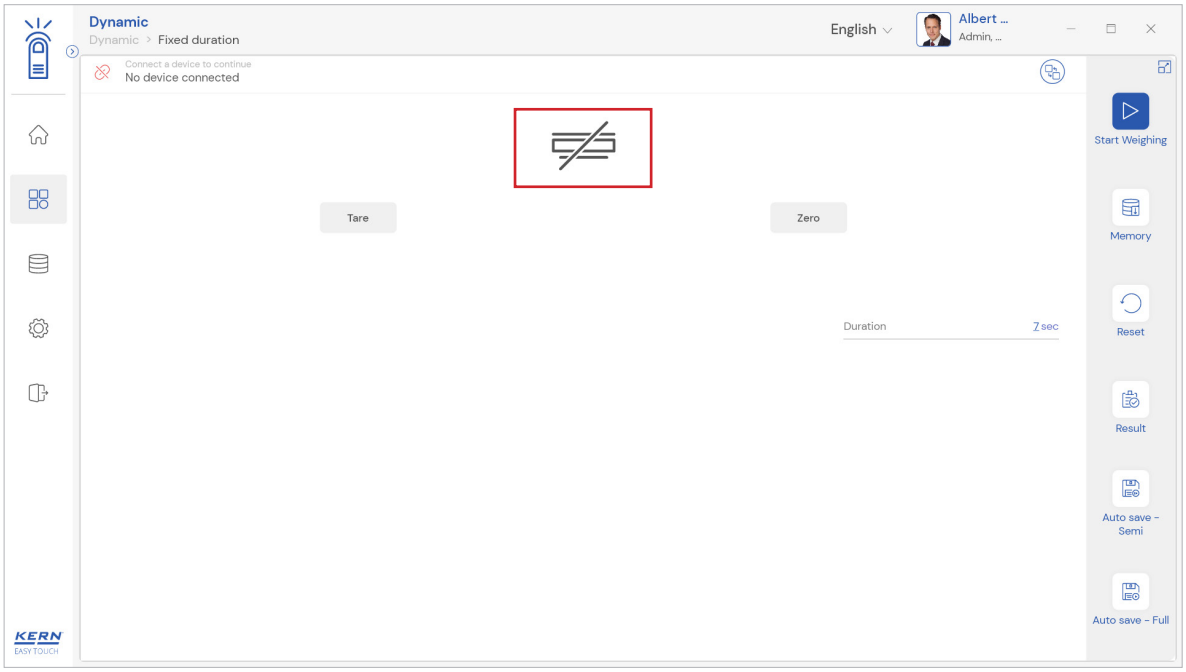
English



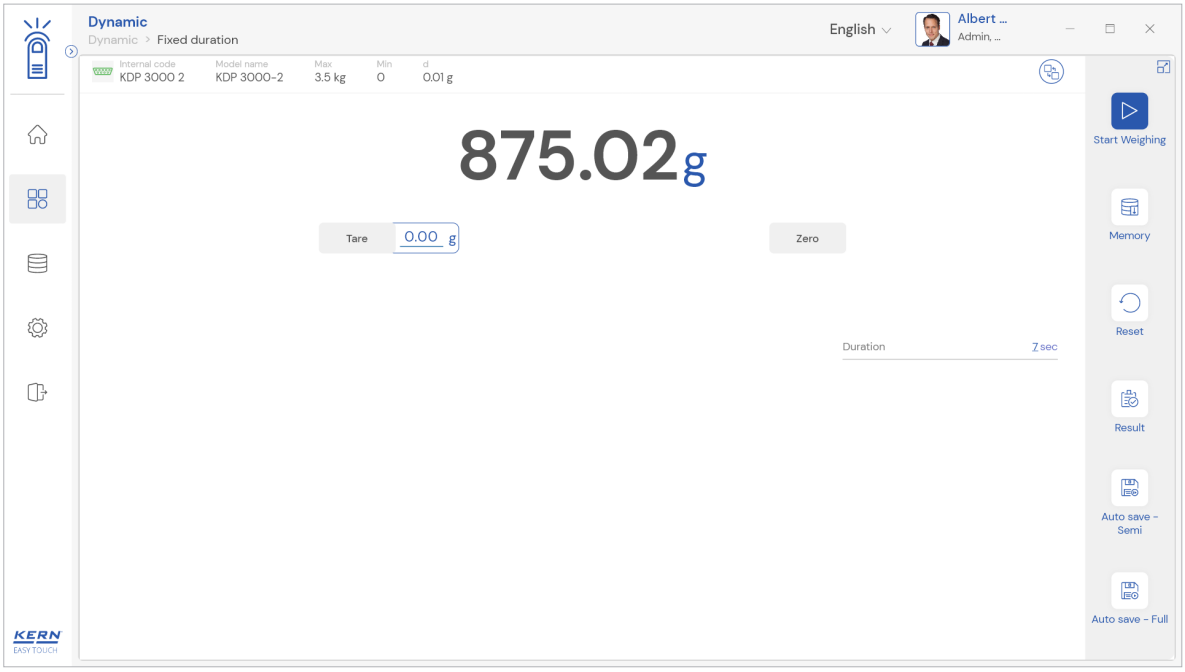
English

2.0 Device features

The device features can be utilized upon connecting the device with the weighing scale. You can choose either of the modes fixed or duration to set up the device

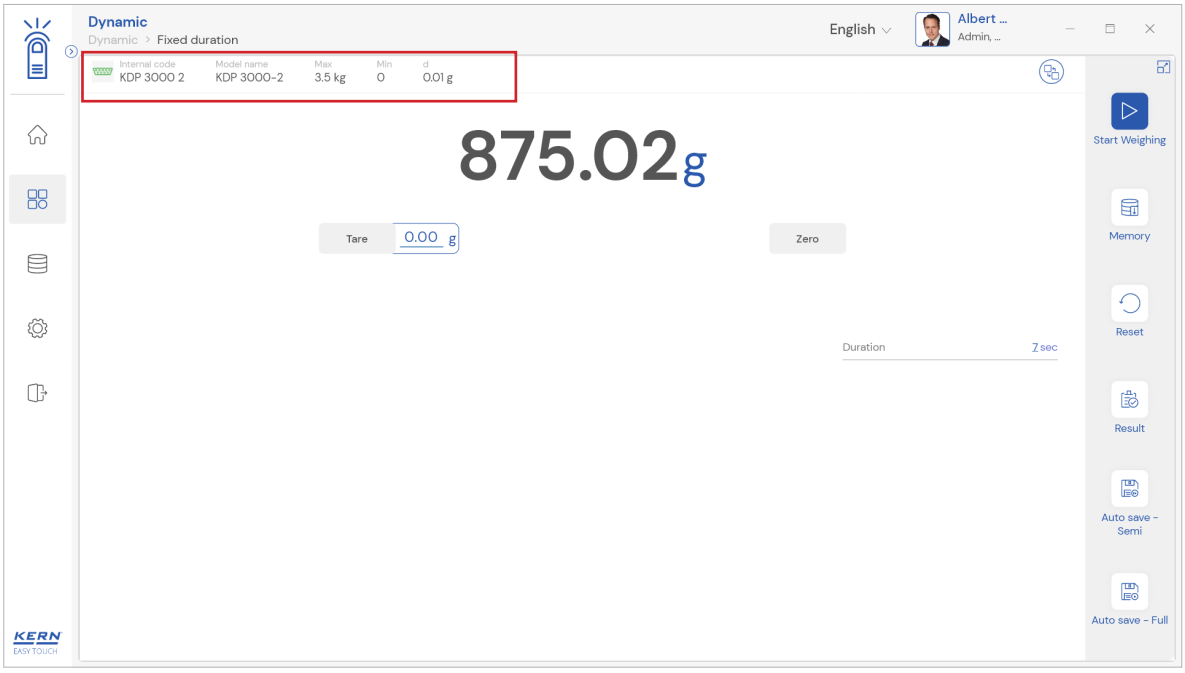


- Indication of “no device being connected” will be displayed.
- The functional features will be displayed in the right-hand side of the screen
- The provision to minimize and maximize were also being given in the upper right corner of the screen to get a full view mode
- Now connect a device to proceed with weighing of an object by clicking on the “connect a device to continue”
- Connect a device which is physically connected to the system and now the weighing mode is activated, and screen looks as per the below.



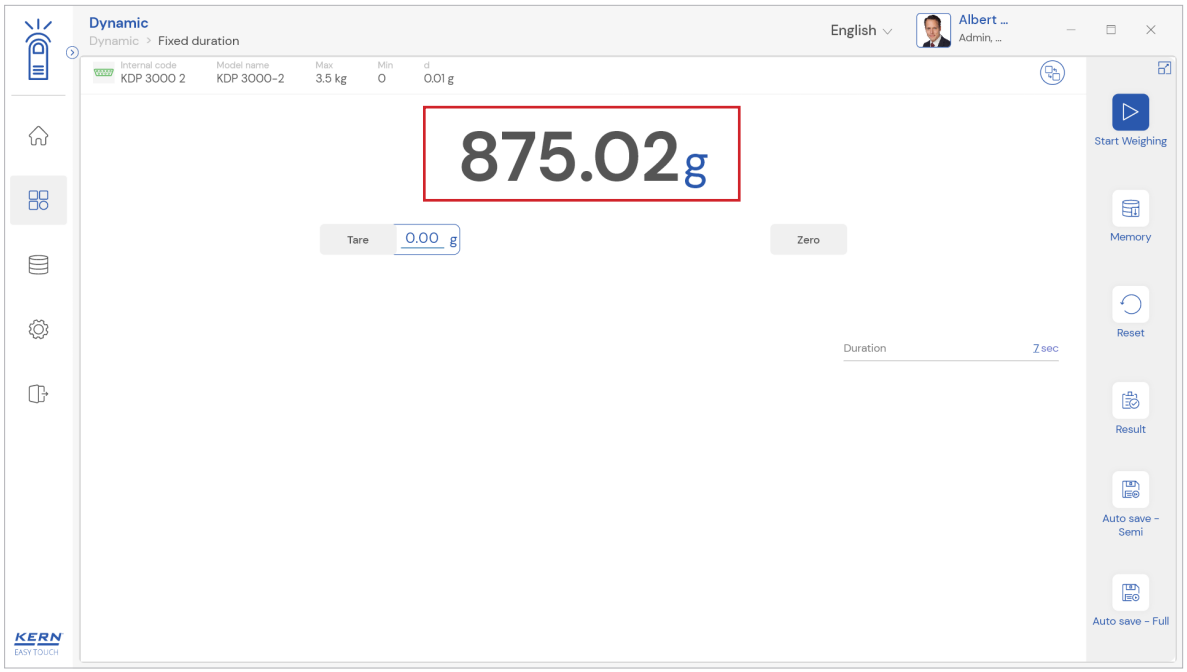
2.1 Device details

The system will display the prominent details of the device as such internal code, model name, min, max, d and e value (in case of verified weighing scale) once the device is connected.



2.2 Net value

The weight on the scale would be displayed with the default unit based on the d value of the connected device.

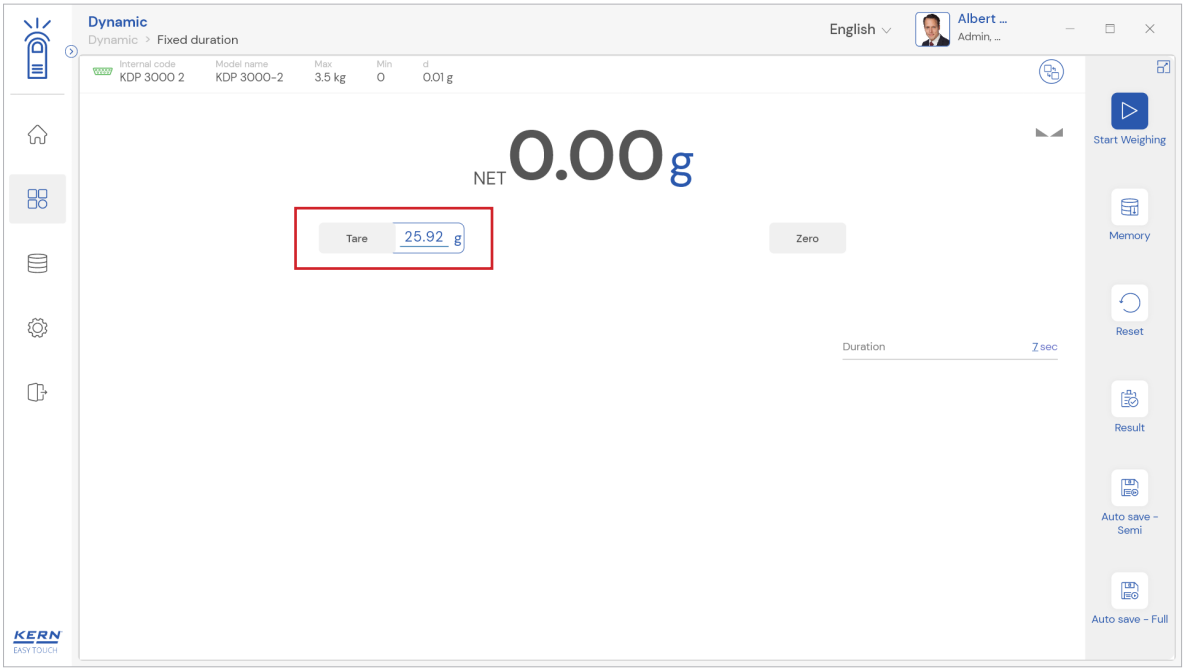


2.3 Tare

User can utilize the tare in two ways

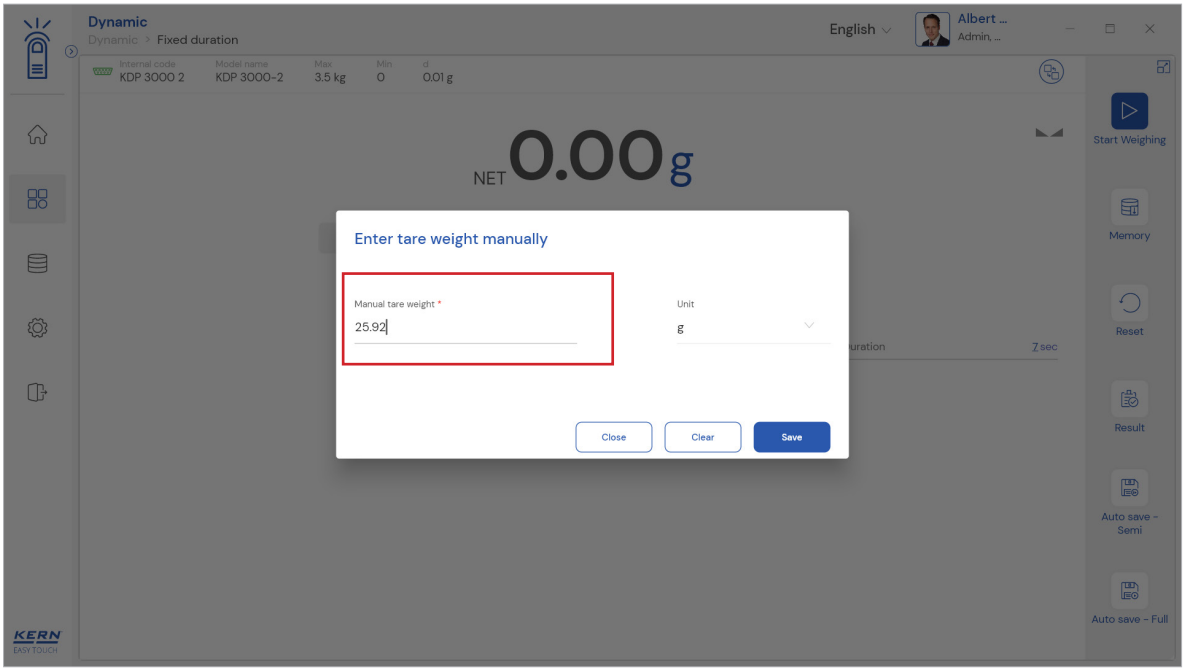
2.3.1 Auto tare

Place weight on the scale and press the tare button. The weight on the scale would be tare.



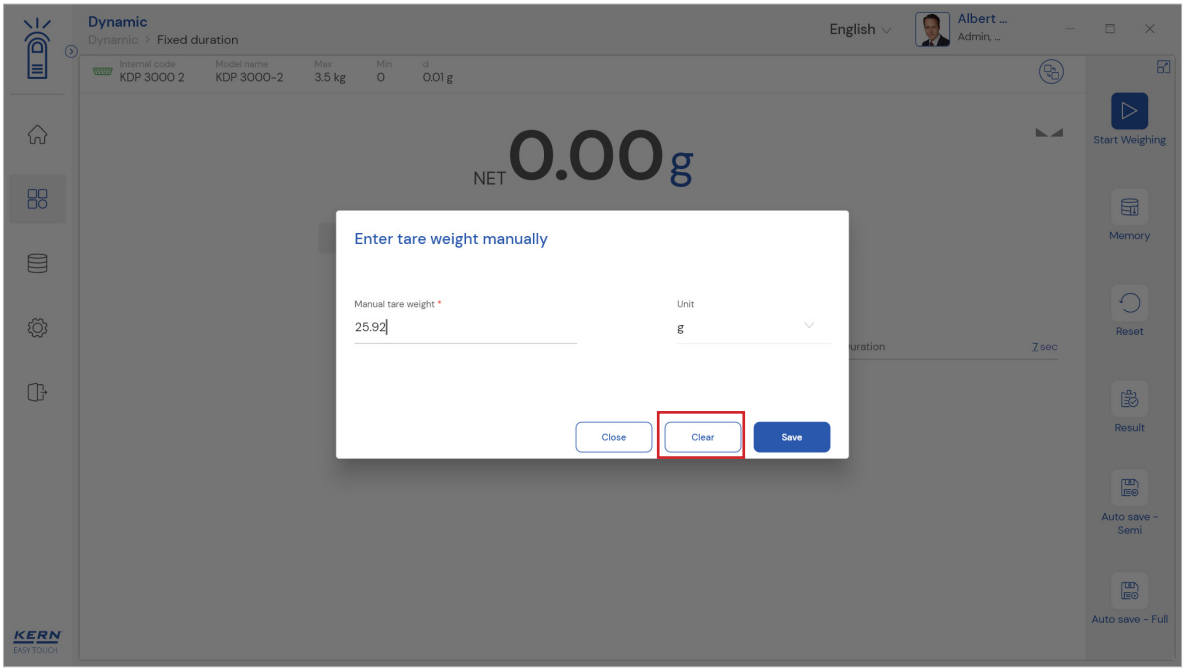
2.3.2 Manual tare

Click on the hyperlink against the tare and enter the tare value.



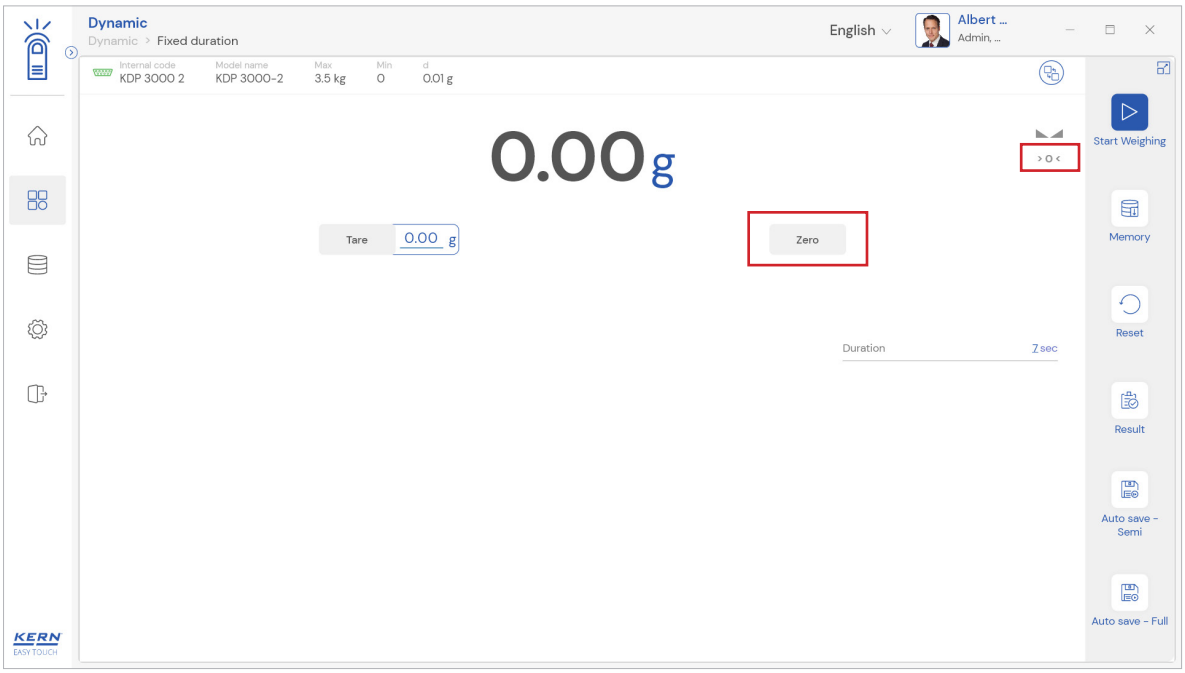
2.3.3 Delete tare value

Click on the clear to delete the tare value manually or remove the weight on the scale and click on the zero button.



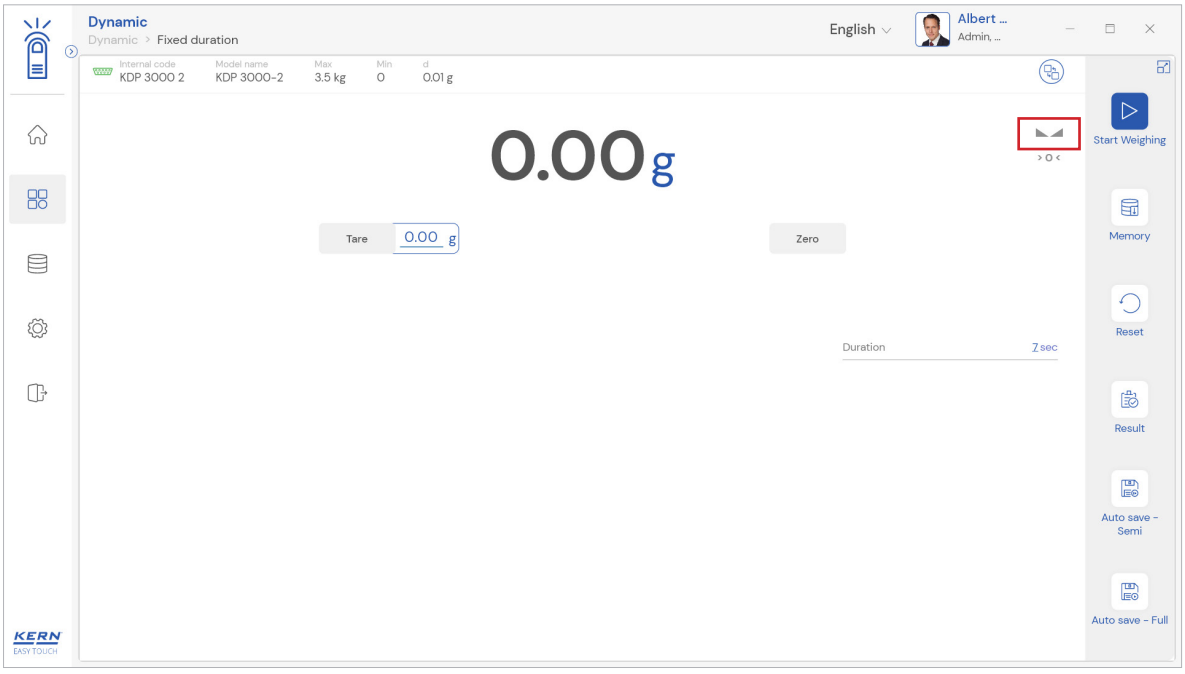
2.4 Zero

- The Zero is used remove the unwanted weight from dust, rust, or other build ups. This is used when there is nothing on the scale, but the reading doesn't display Zero.
- The expected is to set the weight measurement starting from zero.
- The zero will be indicated by the zero indicator
- Kindly note, the zero works only when the weight on the scale is less than 2.5 % of the max value of the device.



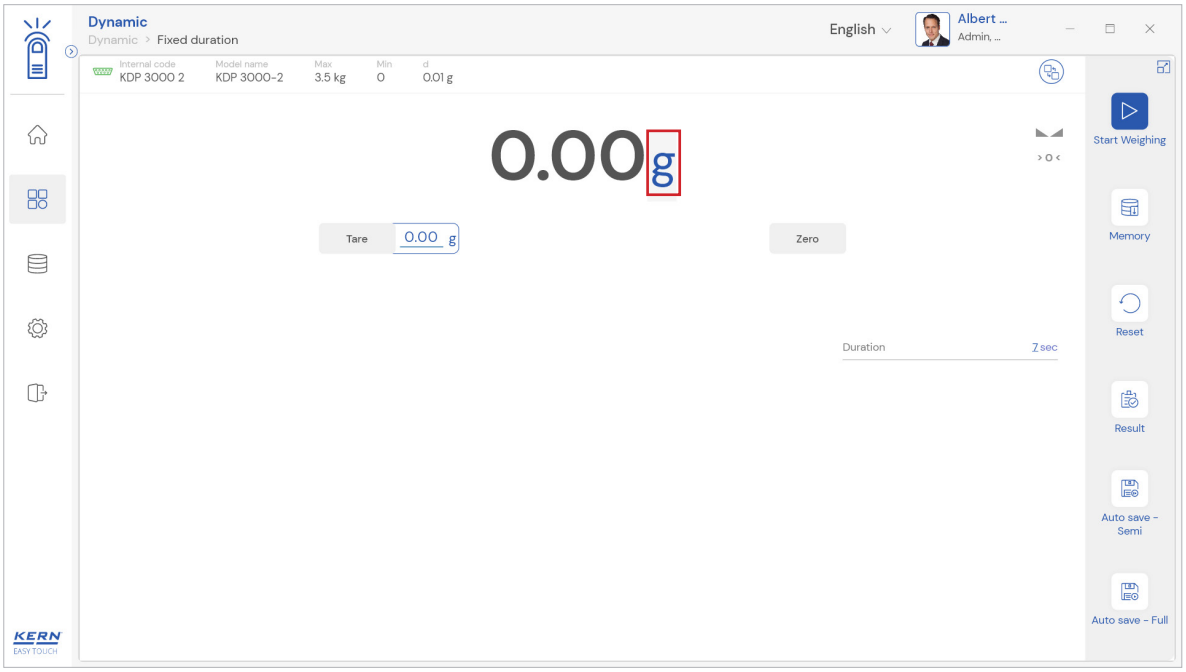
2.5 Stability

The stable indicator will be displayed once the weight on the scale gets stabilized.

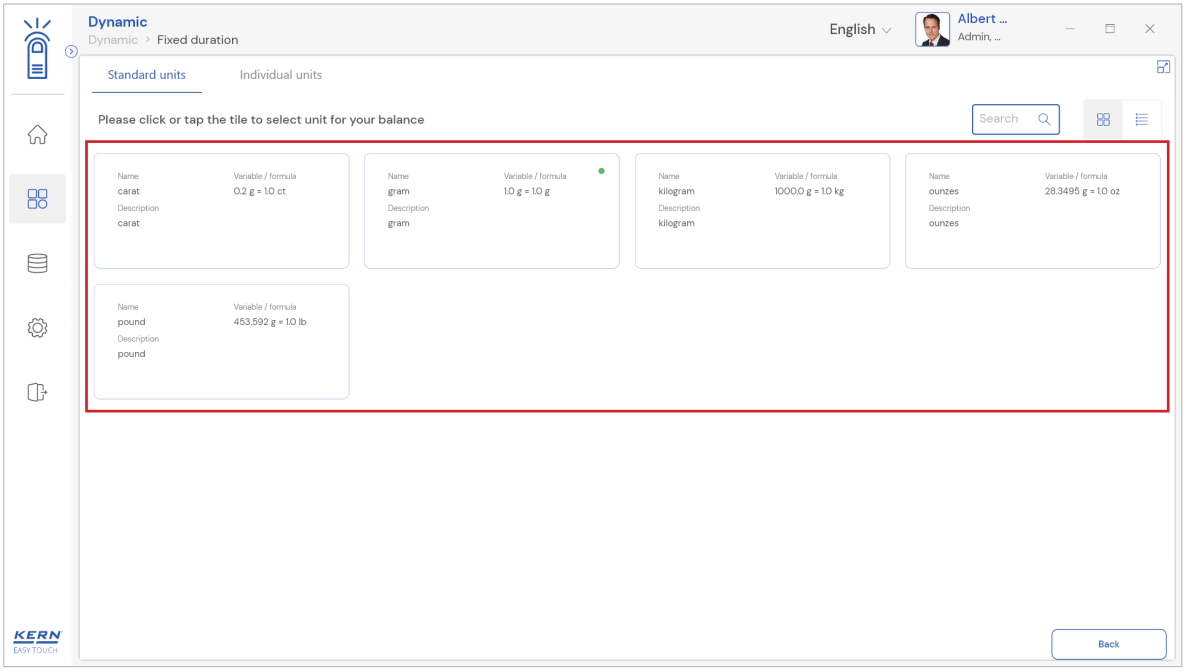


2.6 Unit change

User has been offered with some of the frequently used units by default units. This can be accessed by clicking on the unit on the weighing screen.



By accessing the unit, the user gets this screen to swap the unit in case if required. The respective unit can be accessed by the click.

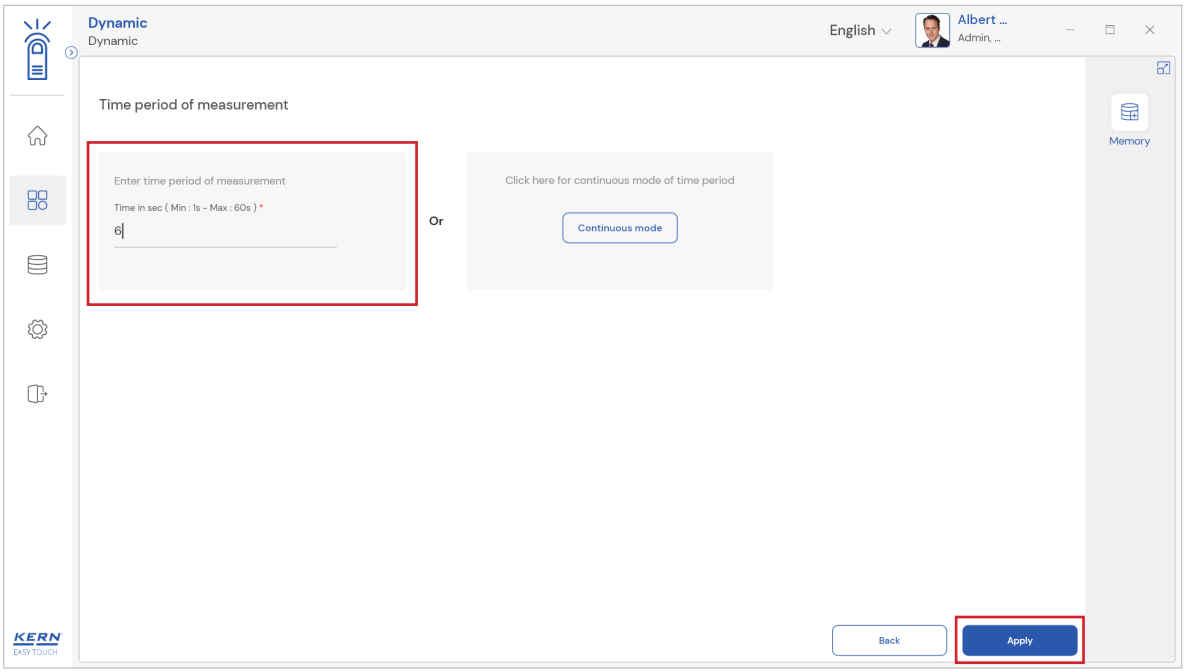


3.0 Functional features

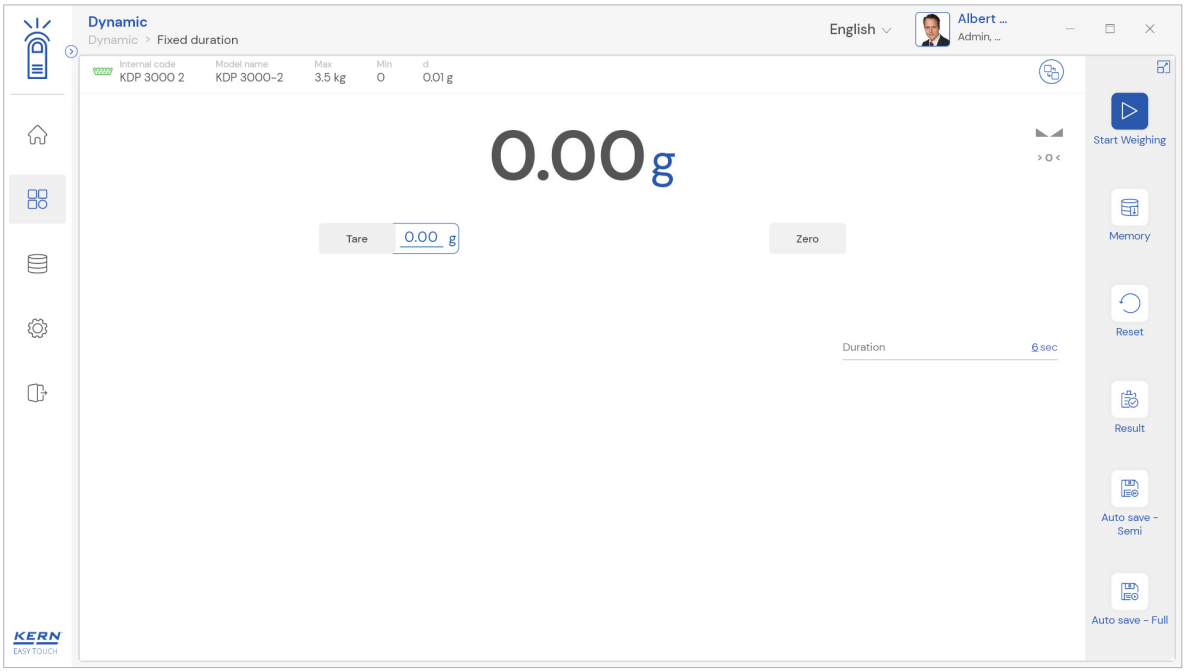
3.1 Measurement by fixed duration

- In this case, the user can possibly define the duration of the measurement of the moving object, which can be expressed in seconds.

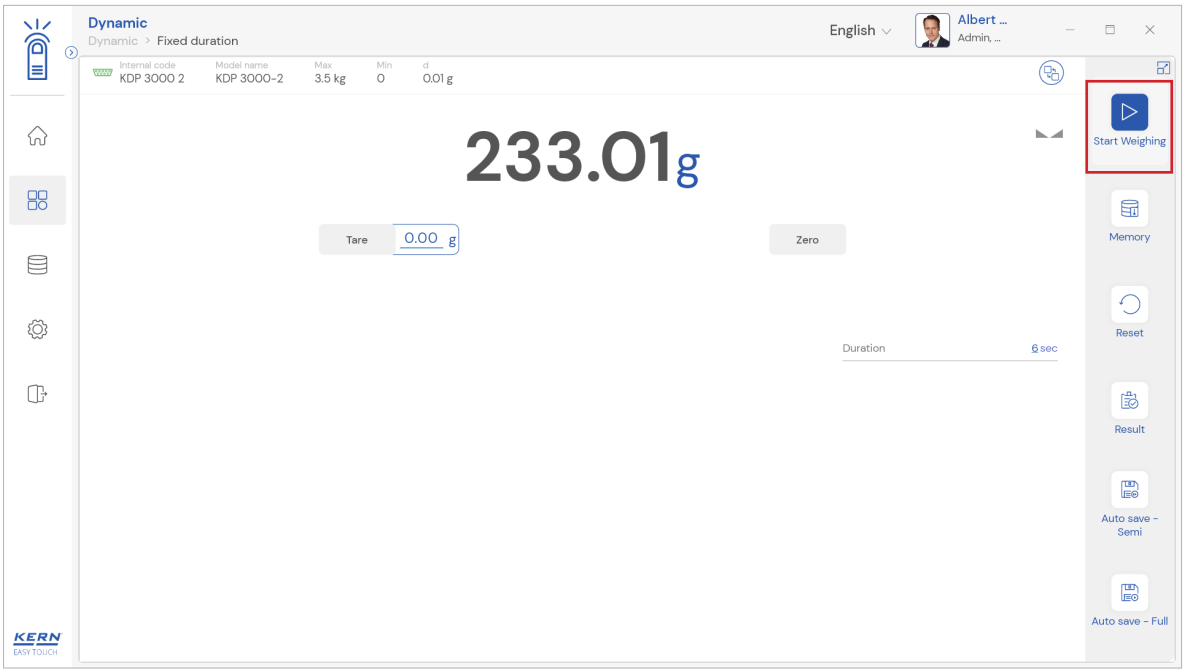
English



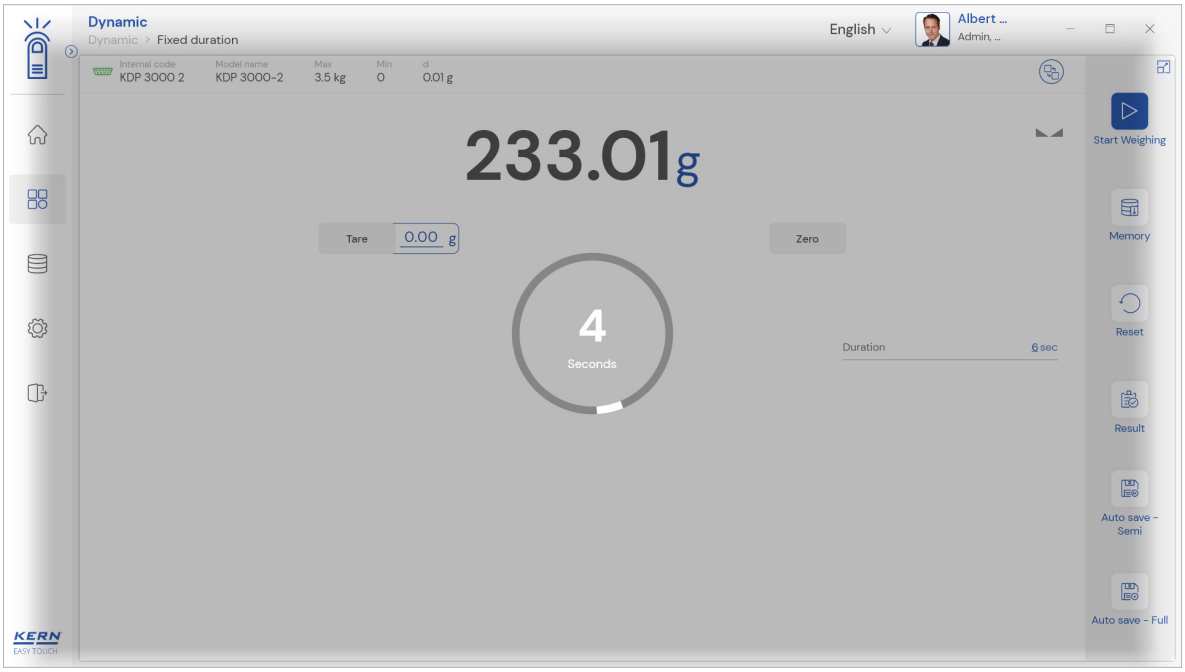
- Here the user can enter the time in seconds. Once the time is entered the apply button will be highlighted.
- Click the apply button
- Upon clicking on “apply” the fixed duration weighing screen will be displayed and the defined duration will be displayed in the screen



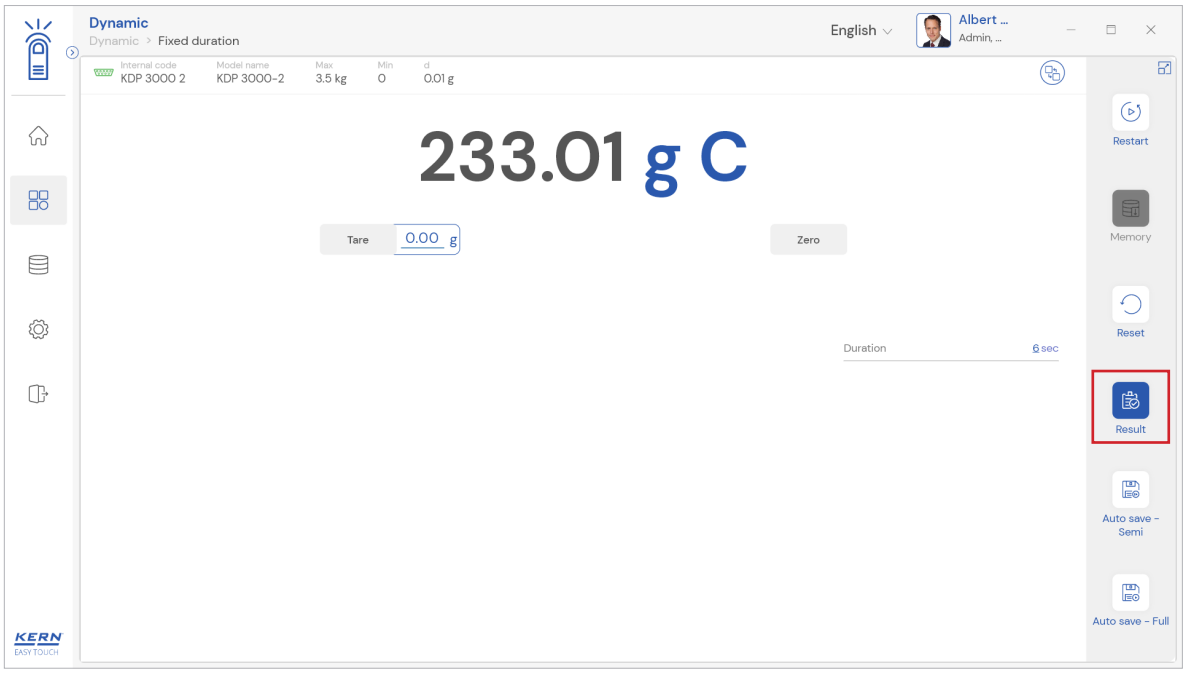
- Load the weighing scale and click the “start weighing” button.



- The timer will start to run and will be displayed on the screen once the user clicks on start weighing.

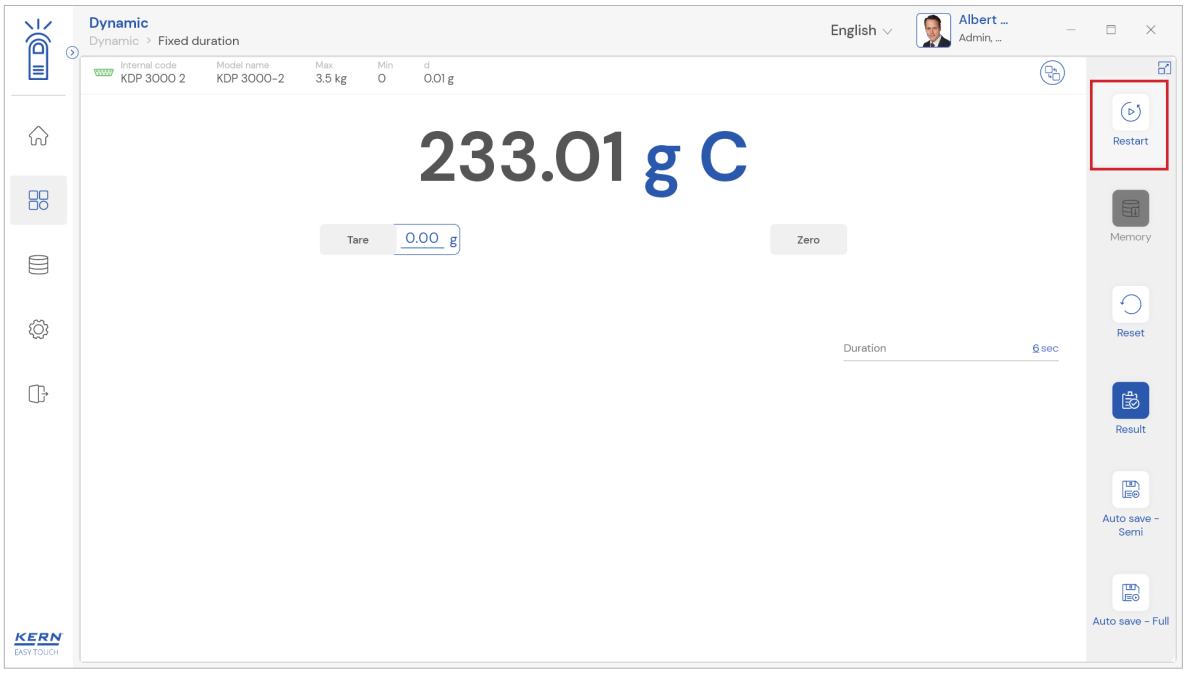


- Once the defined time is completed, the calculated average value will be displayed in the dosing screen and the result button will be enabled to proceed in saving the result.



3.1.1 Repeat the weighing process

Clicking on the restart button the same weighing process can be repeated as often you want.

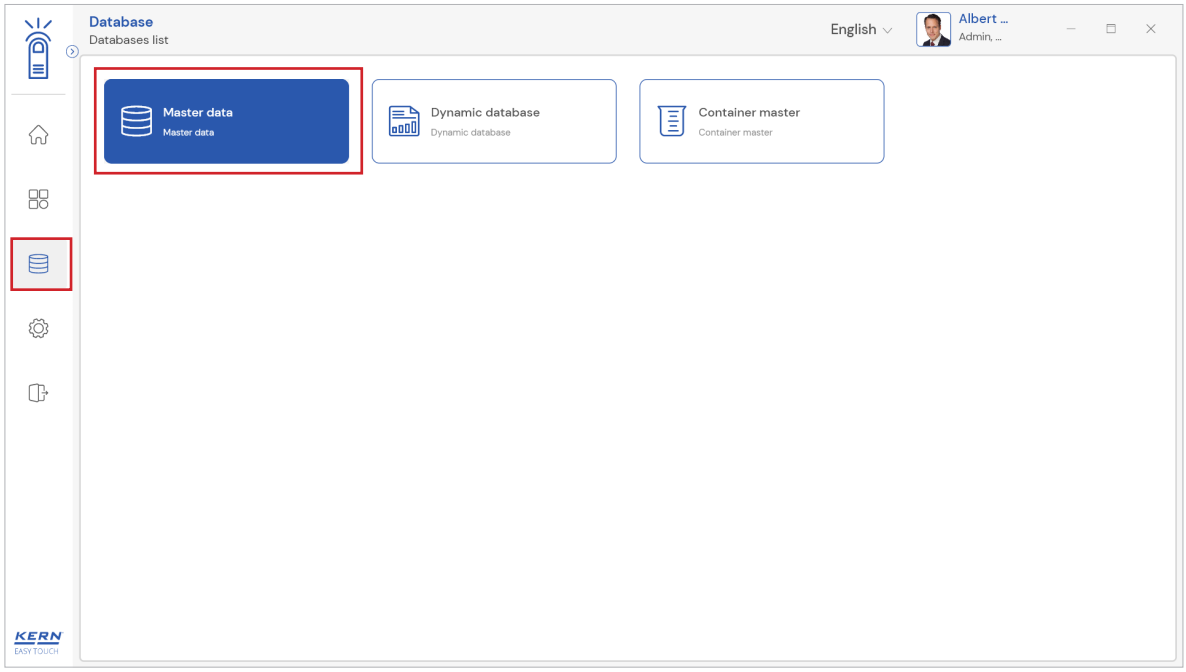


3.1.2 Memory

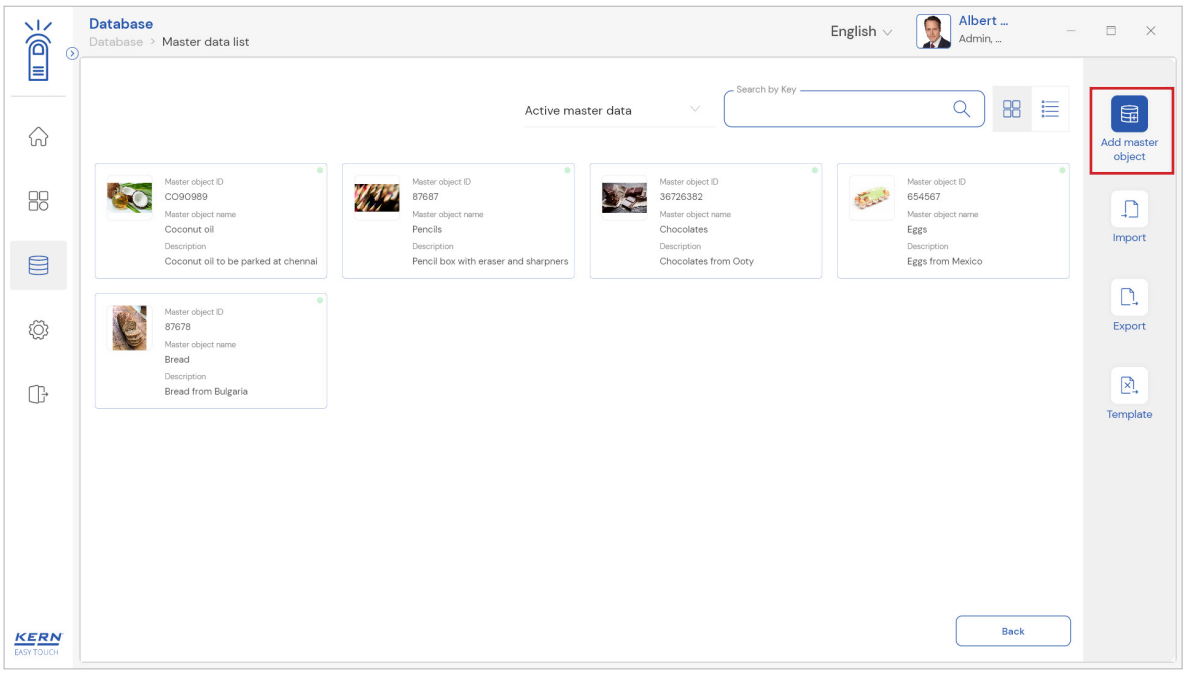
The user might be able to pick an object from the memory where the user can predefine list of objects what you use frequently. The object in the memory can be reutilized.

Steps to be followed to create a master data with functional properties

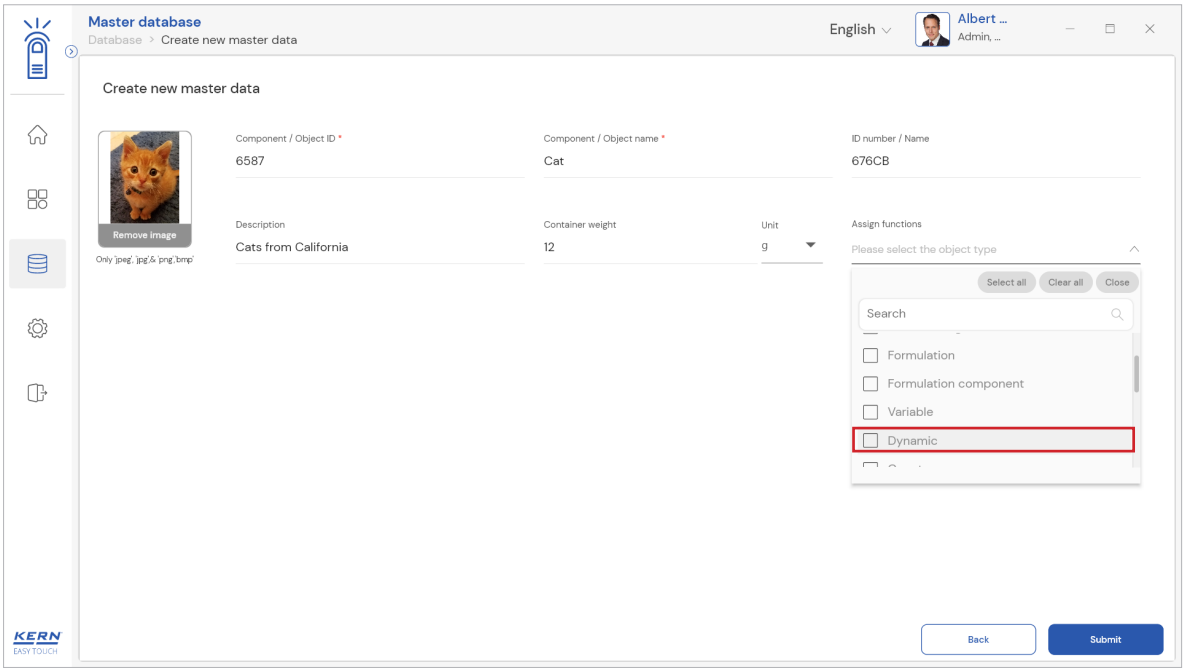
- Click on the database icon and redirect to the master data.



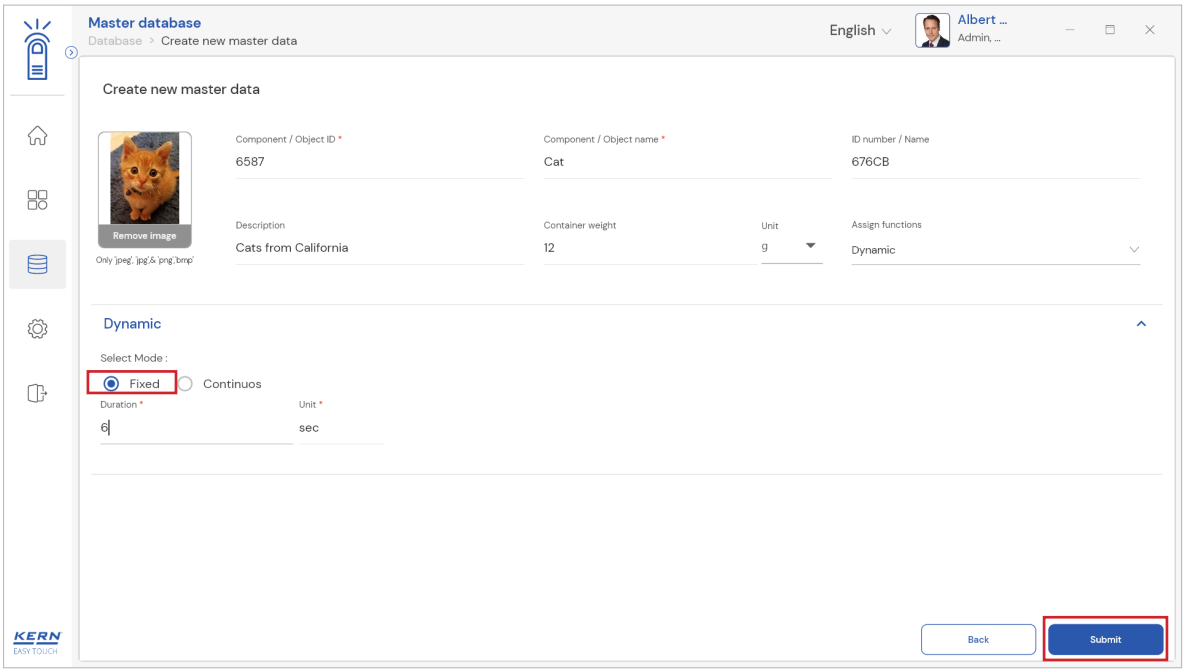
- The below screen would be displayed. The user might be able to see the list of master data objects created here.
- The user can click on the “add master object” to create a new master object.



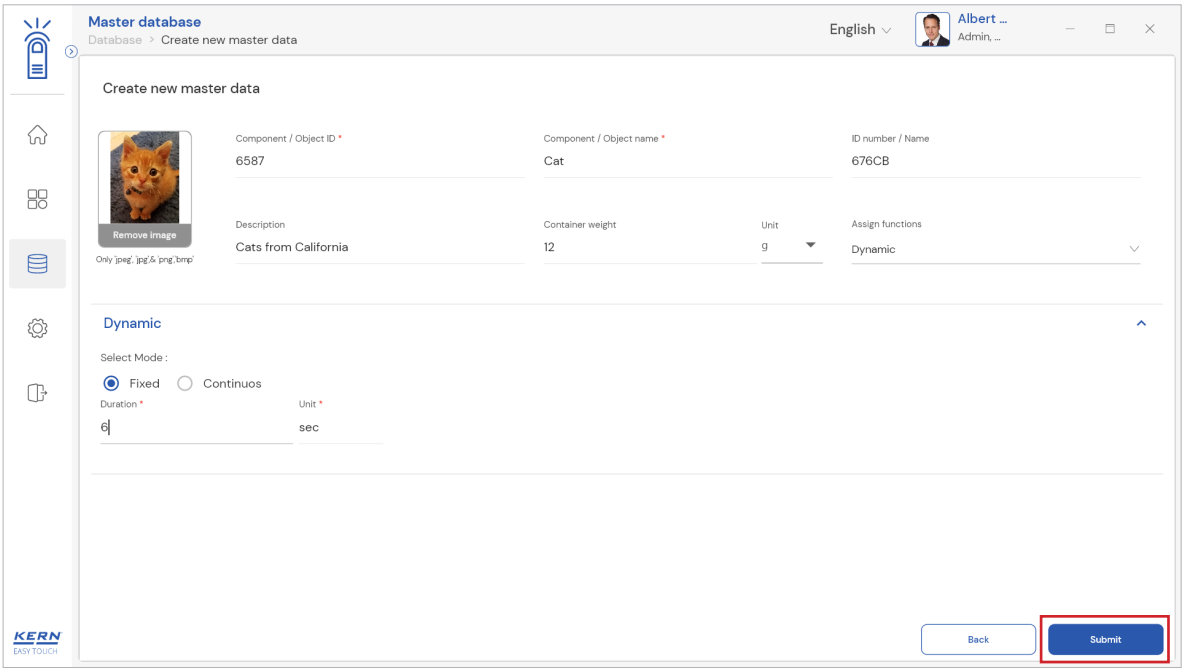
- The user can fill in the information as such component / object ID, component / object name, ID number / name, description, container weight and the image for the reference.
- Now user can select the required function “dynamic” to utilize the properties.



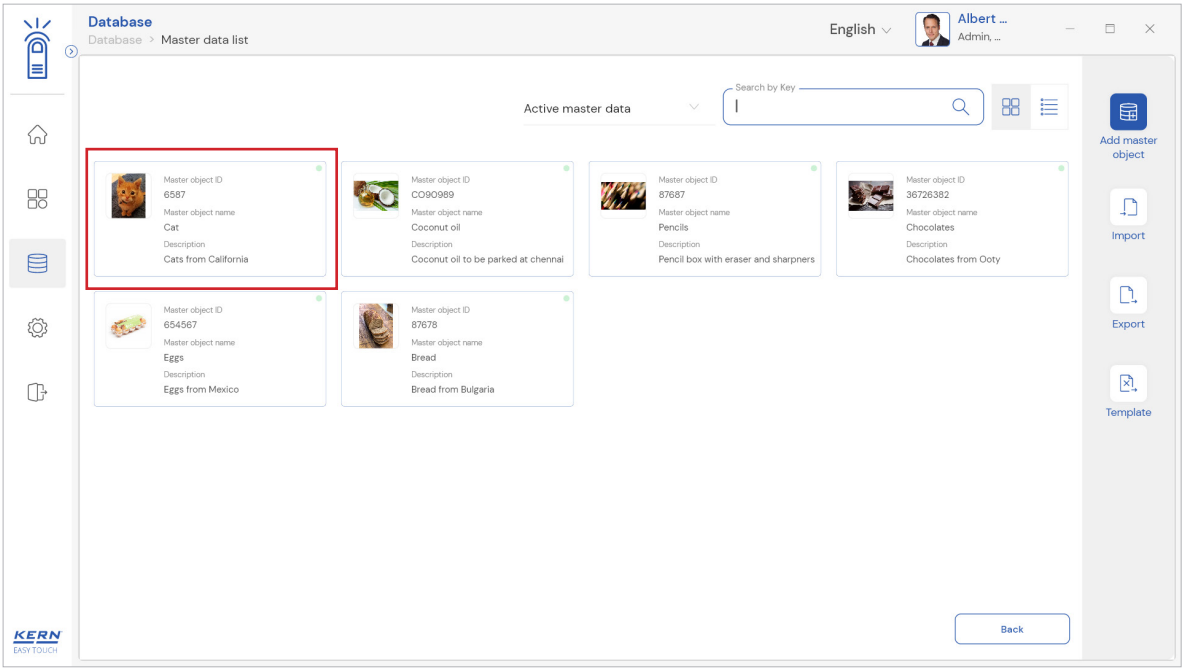
- Upon clicking the function, the functional properties to select between fixed and continuous mode will be displayed.



- User can choose the fixed mode and provide the time in seconds
- After the time is defined click on submit to save the master object.



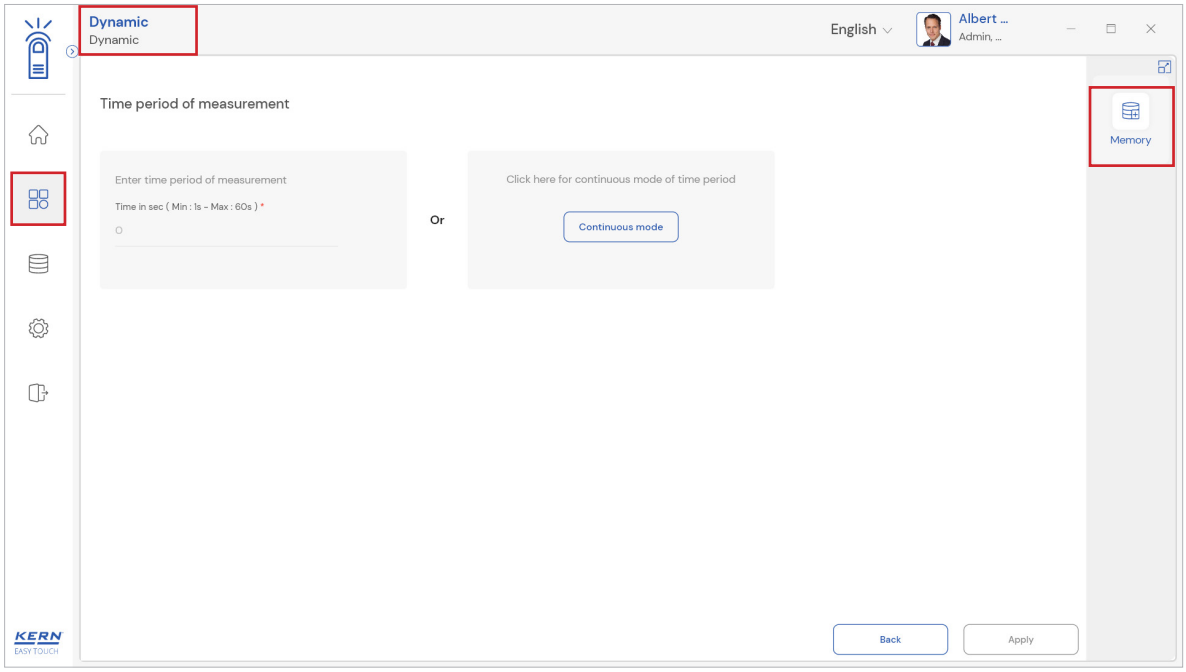
- The master object data is being saved and user could be able to view the created master object in the master list.



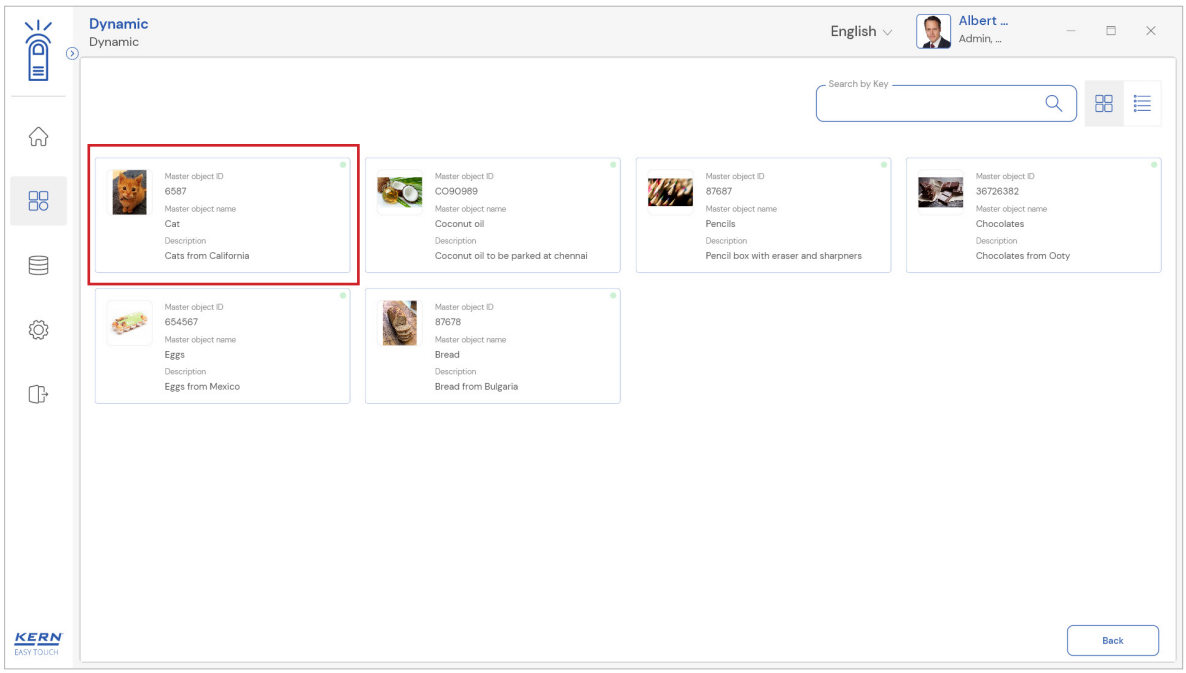
Utilize the master data in the function

- Navigate to the dynamic function and choose the memory button

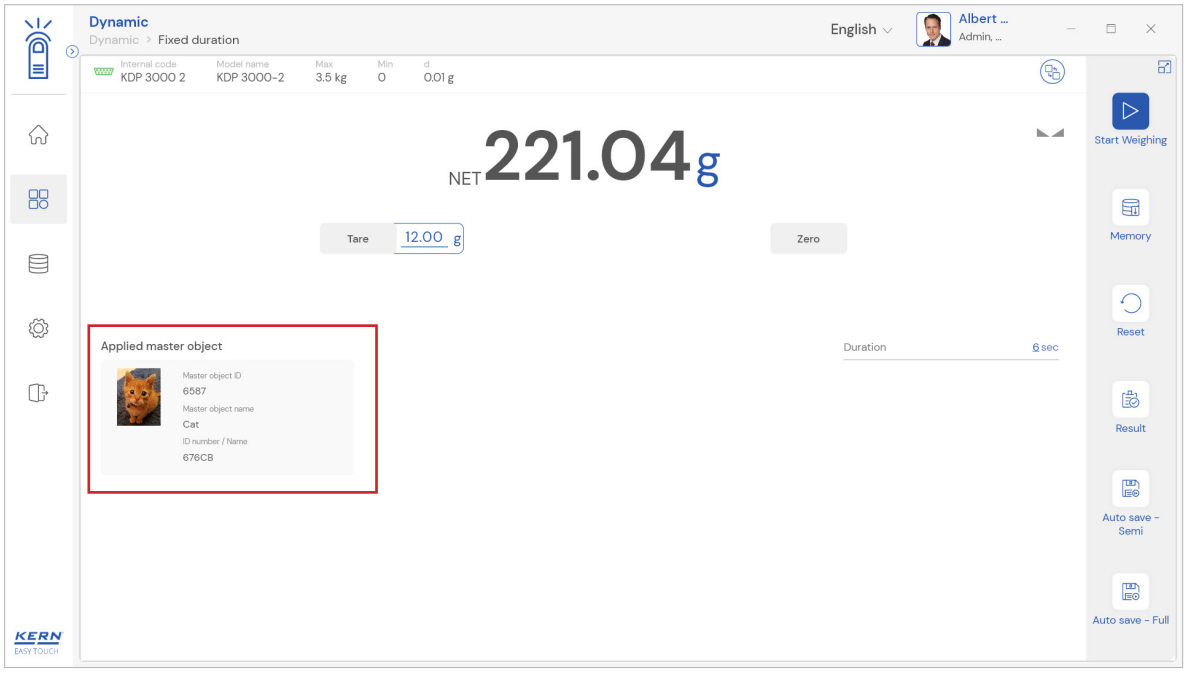
English



- Click on the memory and the user will be taken to the master memory to pick from the list of objects predefined. User can click on the required object to be weighed.
- User will be provided with the search option to search the required weighing object.

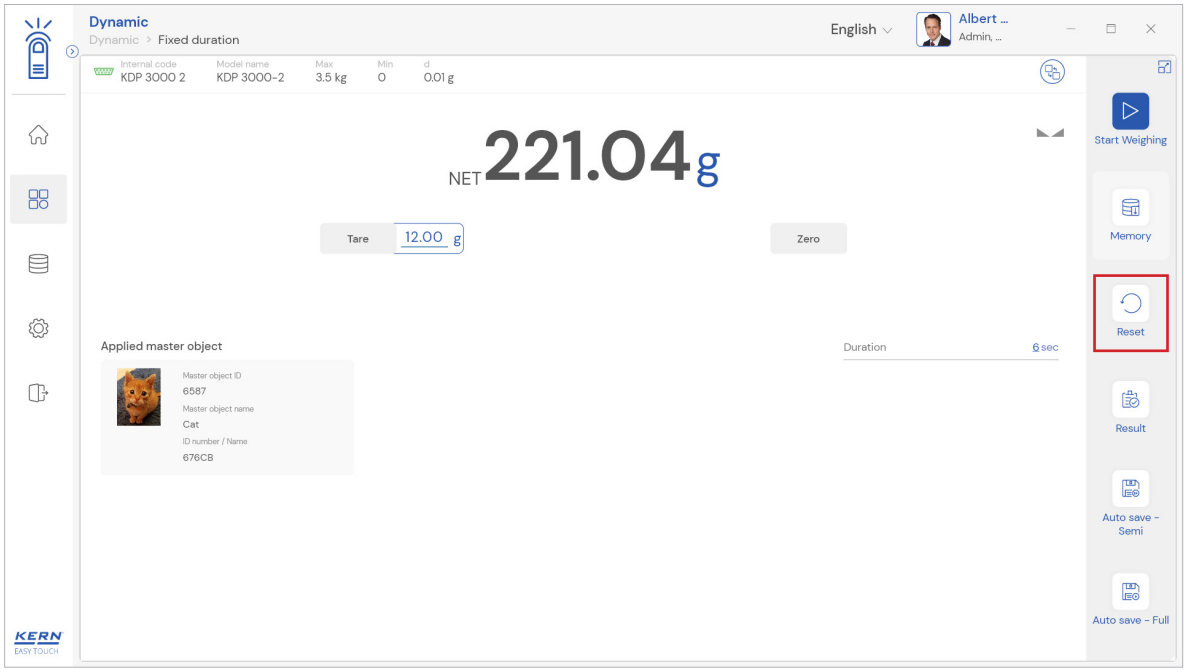


- User will be redirected to the weighing screen upon clicking the required object.
- The functional properties as such the mode and the duration (in case of fixed mode) given in the master data will be autopopulated and the user is set to weigh.

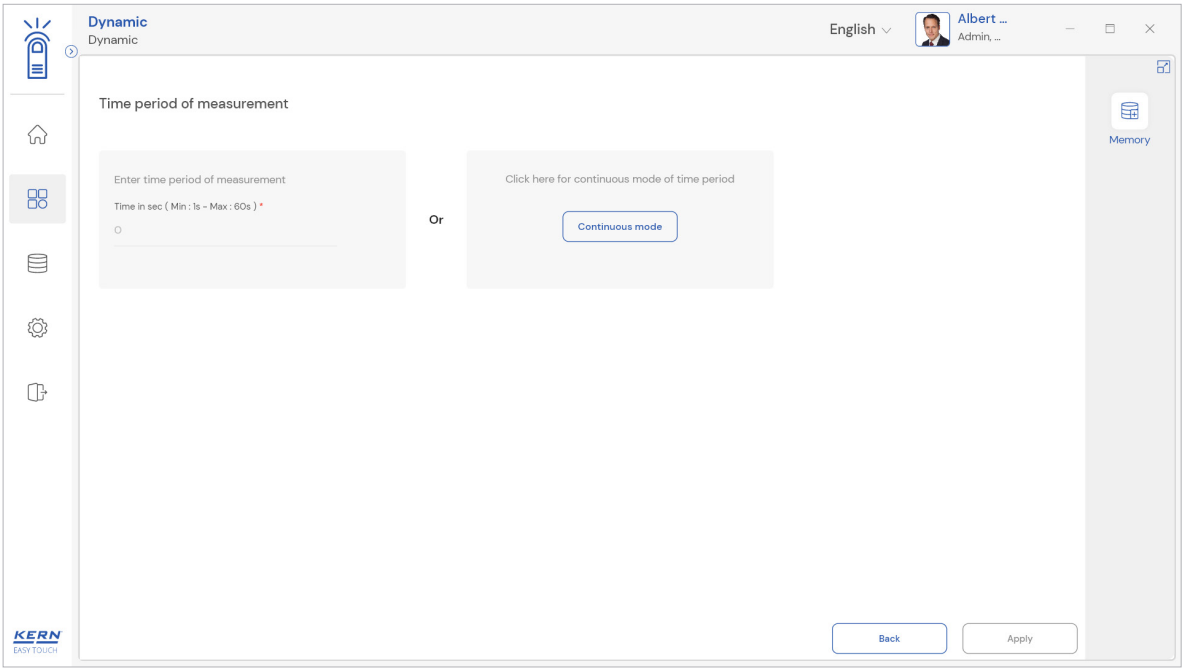


3.1.3 Reset

The purpose of reset is to clear the stored readings.



Upon clicking the reset, system will reset all the weighed data and the master data applied and will be ready to perform the new operation



3.2 Auto save

3.2.1 Auto save semi

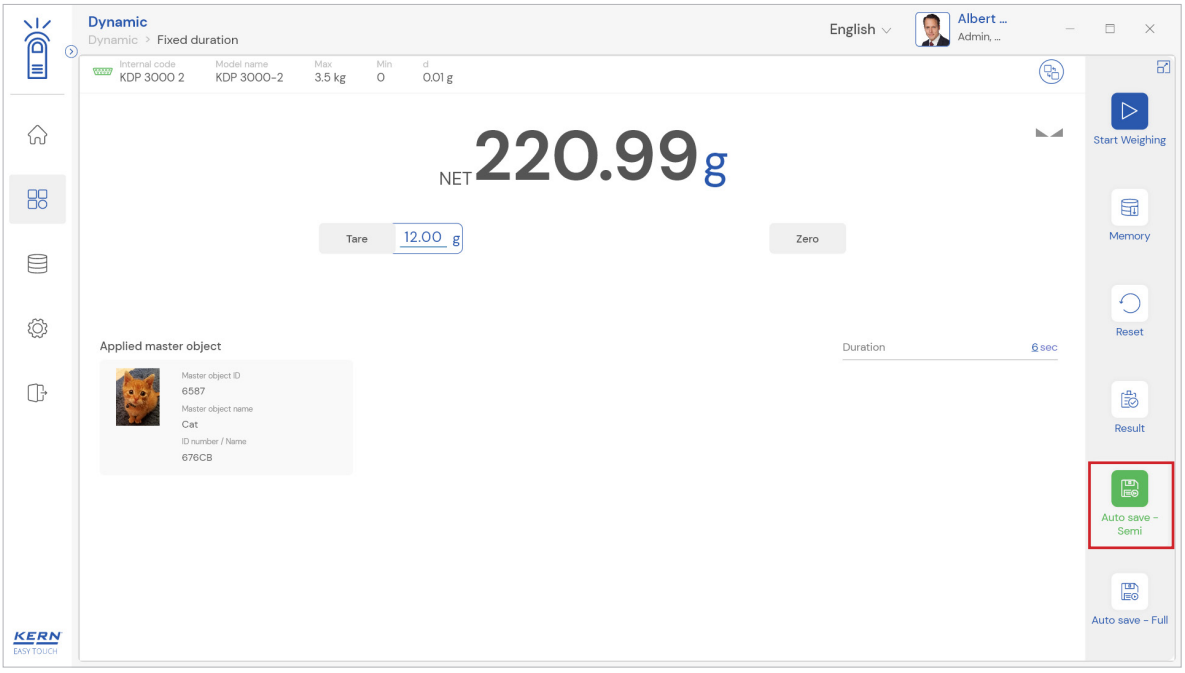
The purpose of auto save semi is to avoid pressing the result button once the measurement is done.

- In the event that the defined time begins and ends, the user will be automatically directed to the results screen.
- This might be useful in reducing the work of operators as they might not need to press the result button every time.

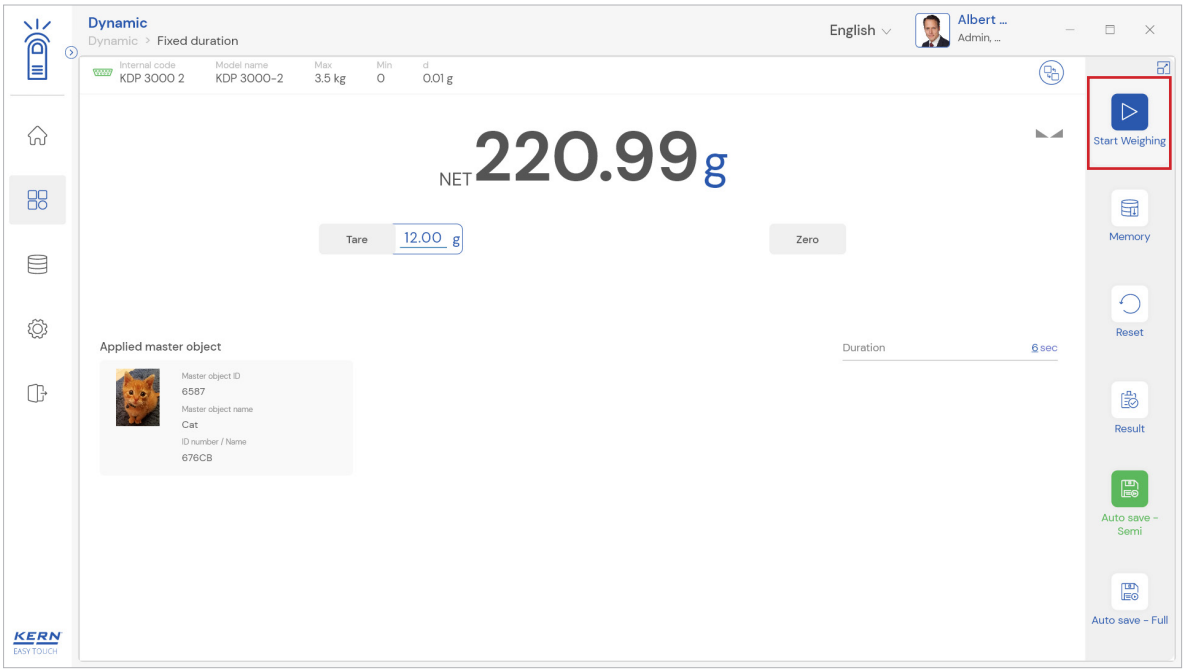
Steps to be followed:

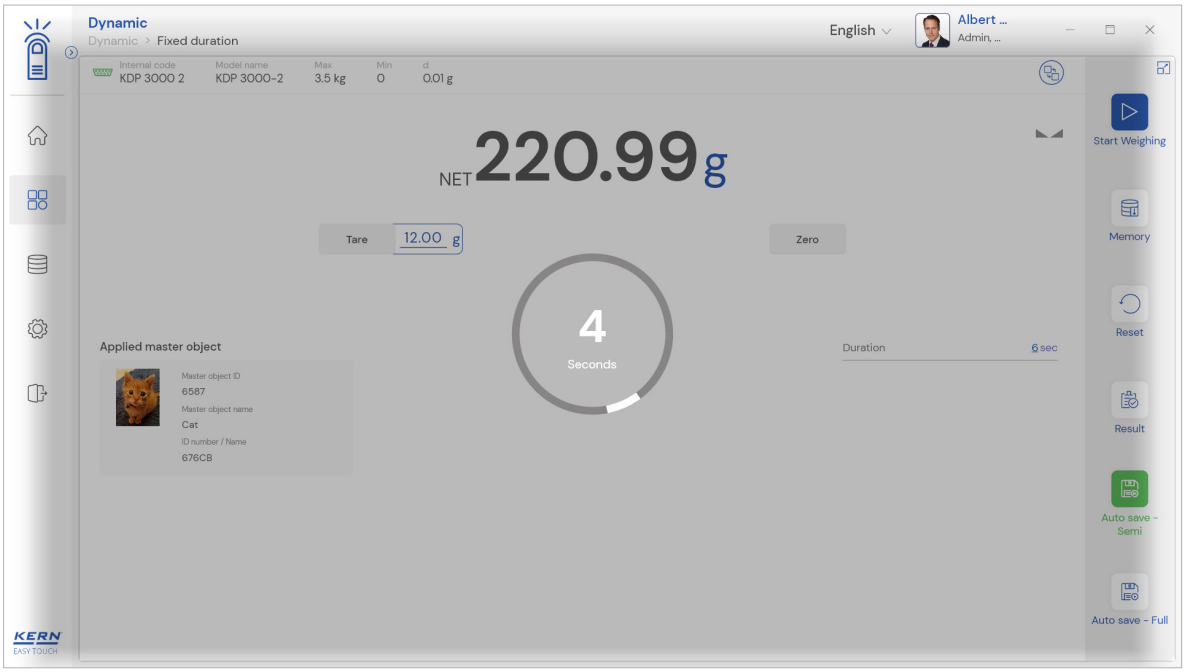
Step 1: Enable auto save semi.

Step 2: Place the object that is required to find the net weight



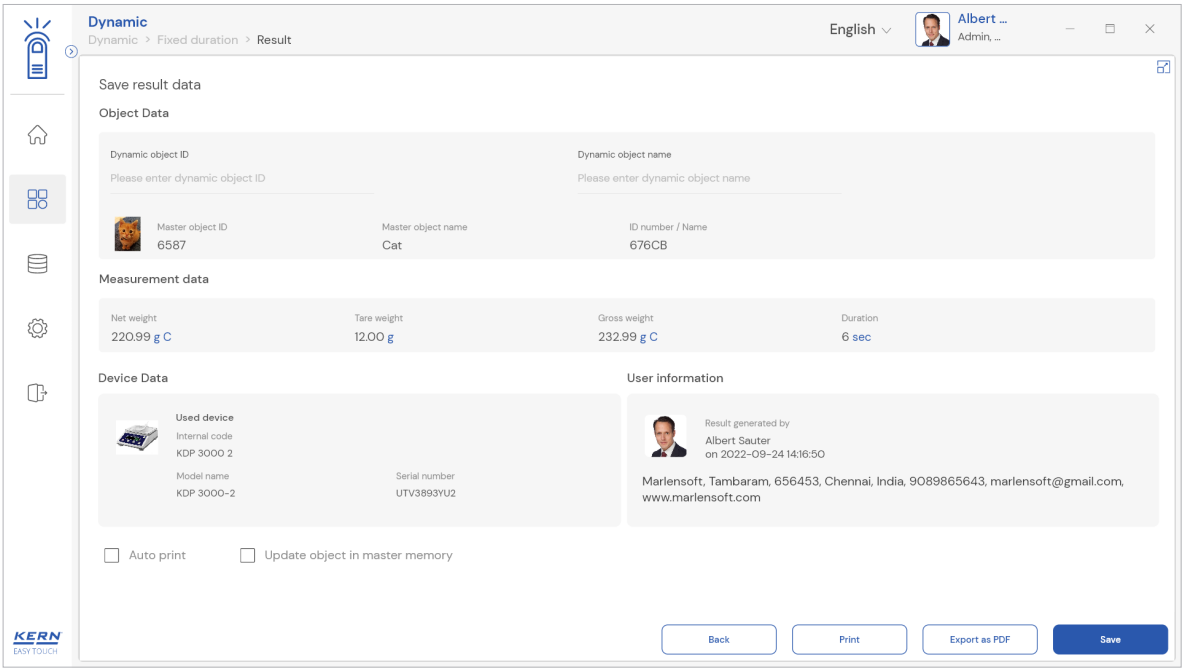
Step 3: Click on start weighing and wait till the durations gets completed





Step 4: Once the durations gets completed the user will be automatically taken to the result screen.

English



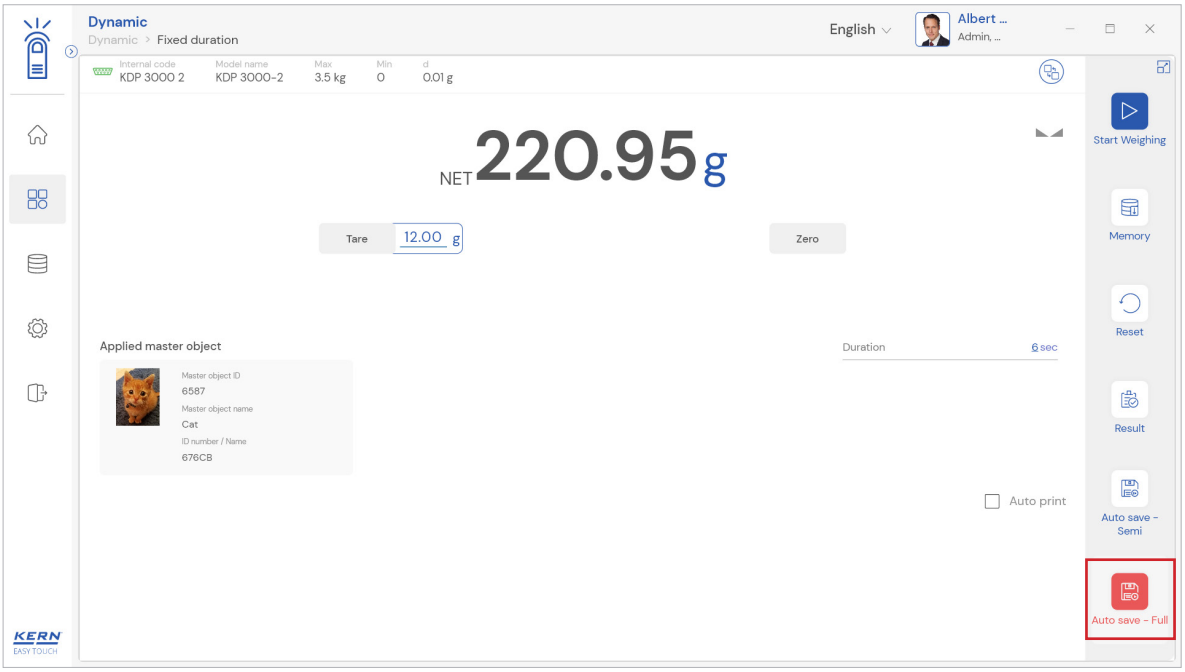
3.2.2 Auto save full

The purpose of auto save full is to save the result automatically without moving to the result screen every time once the measurement is done.

- In the event that the defined time begins and ends, the system will automaticallysave the result to the dynamic database.
- This might be useful in case if the operators in the industries are handling chemicals and might not be able to touch the application screen due to grease or other conditions.

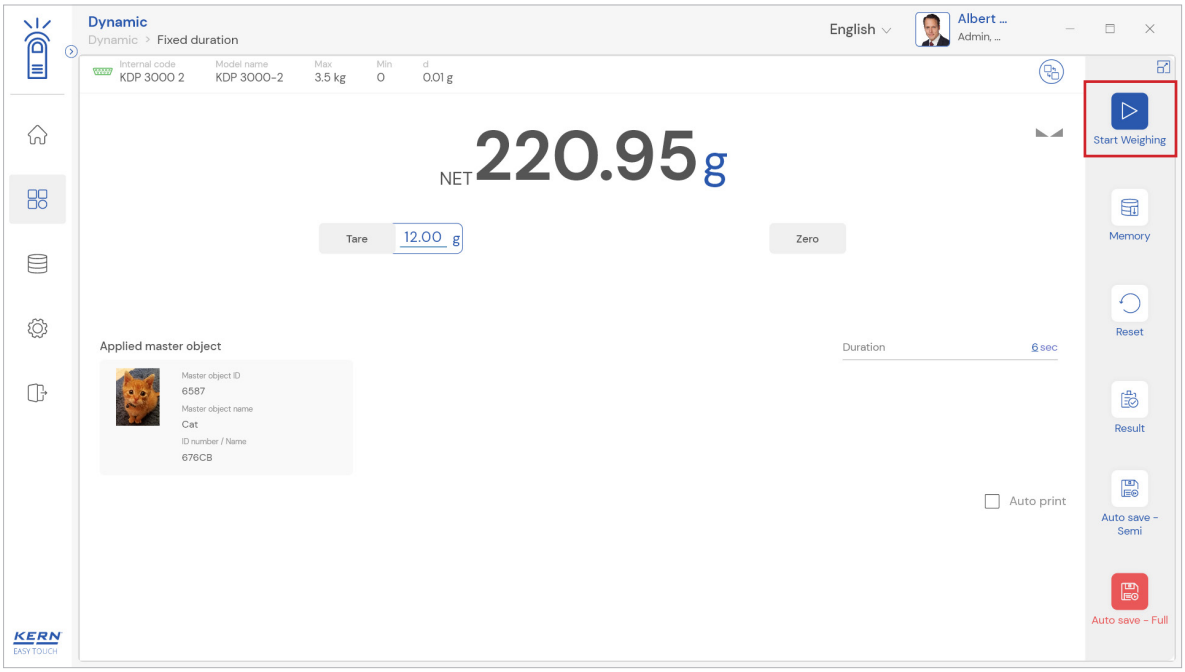
Steps to be followed:

Step 1: Enable auto save full

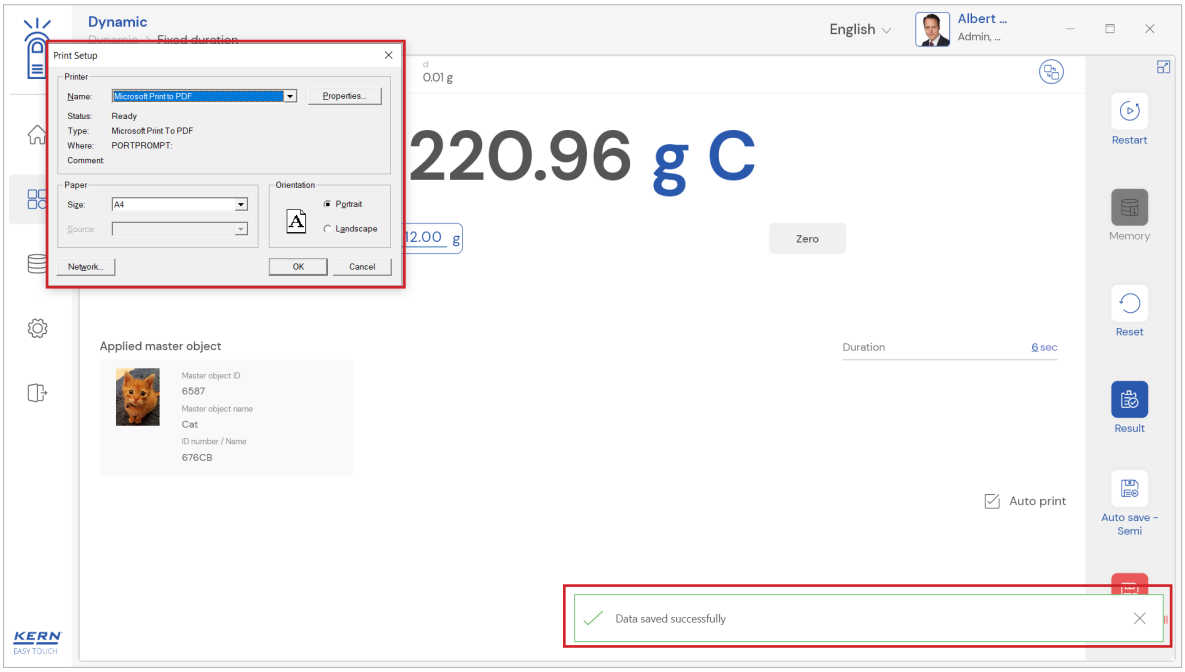


Step 2: Place the object that is required to find the net weight

Step 3: Click on start weighing and wait till the durations gets completed



Step 4: The system will automatically save the result in dynamic database. The user can enable the auto print in case wanted to print the data automatically upon saving the data in dynamic database.

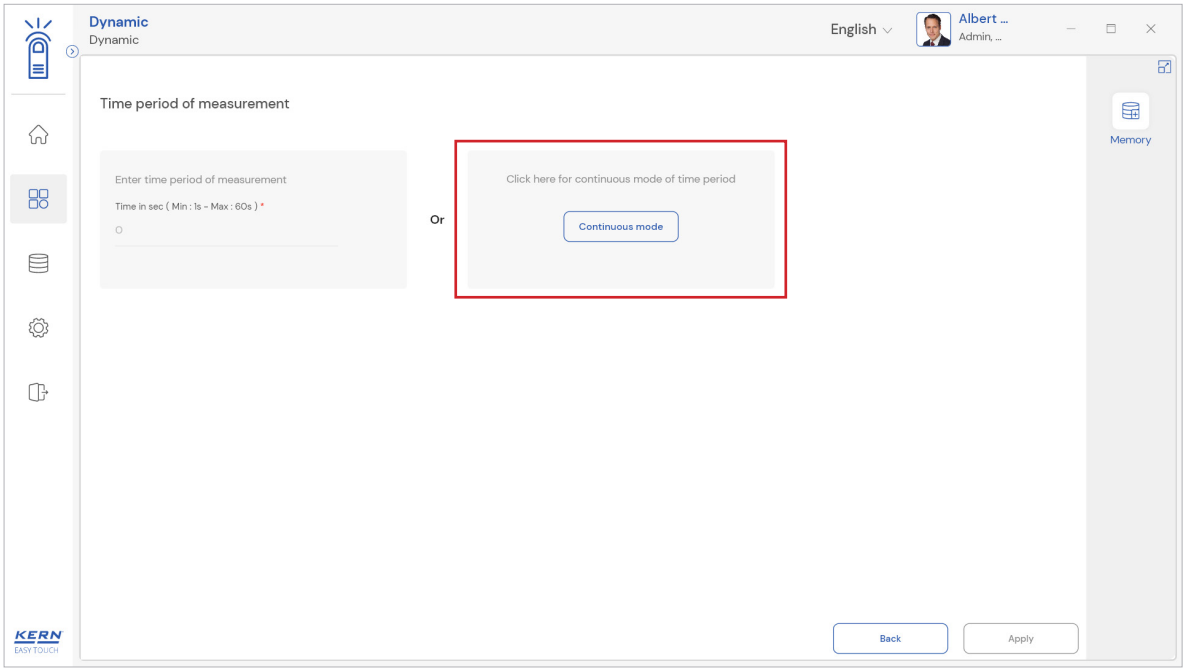


3.3 Measurement by continuous duration.

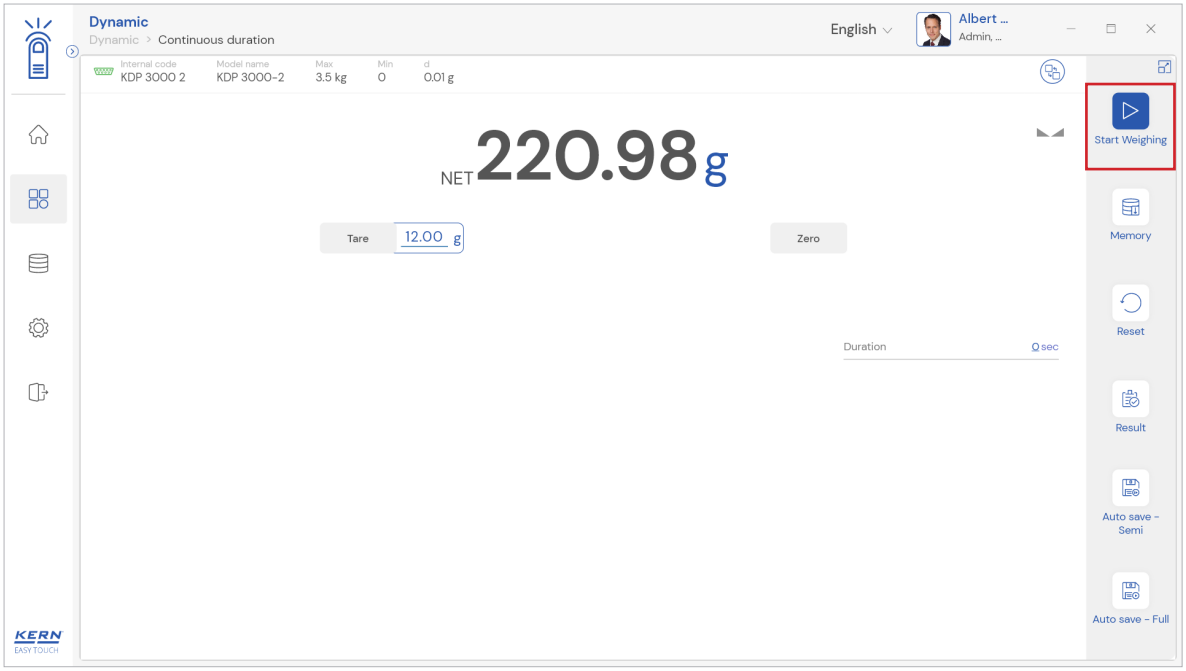
This mode allows the user to run the time and stop it whenever wanted instead of predefining the duration of the measurement of the moving objects. The user will have the provision to see the whether the object is stabilized by using a graphical chart in the system.

- Here the user clicks on “continuous mode” to measure the moving objects.

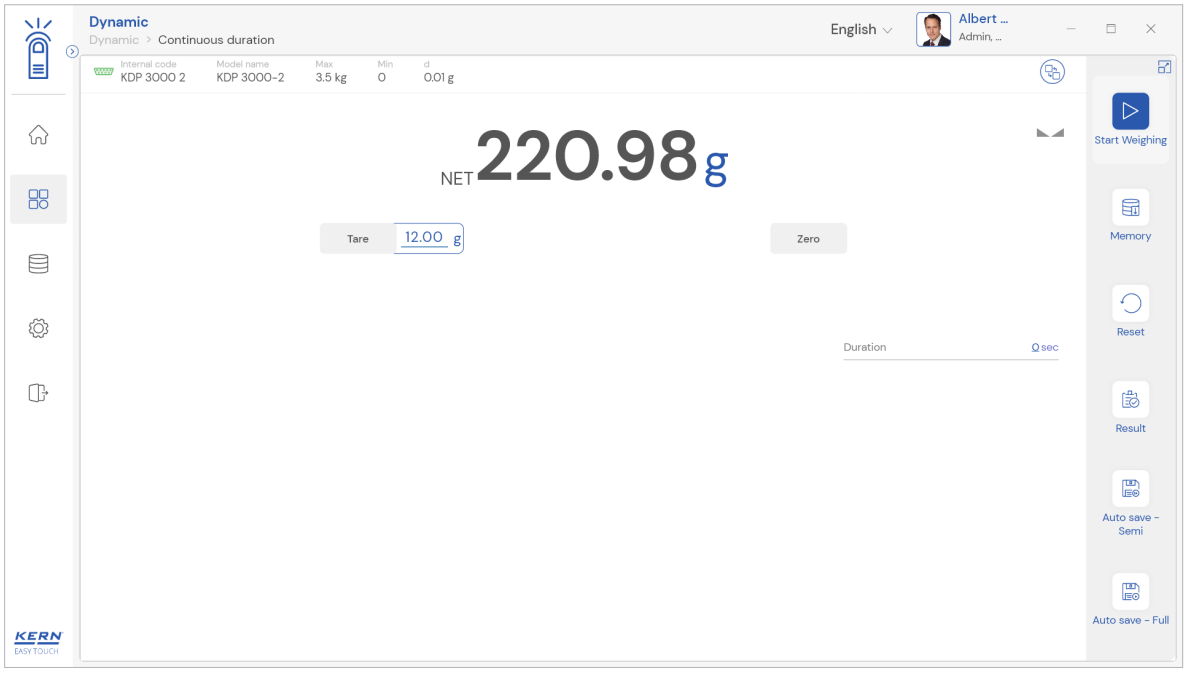
English

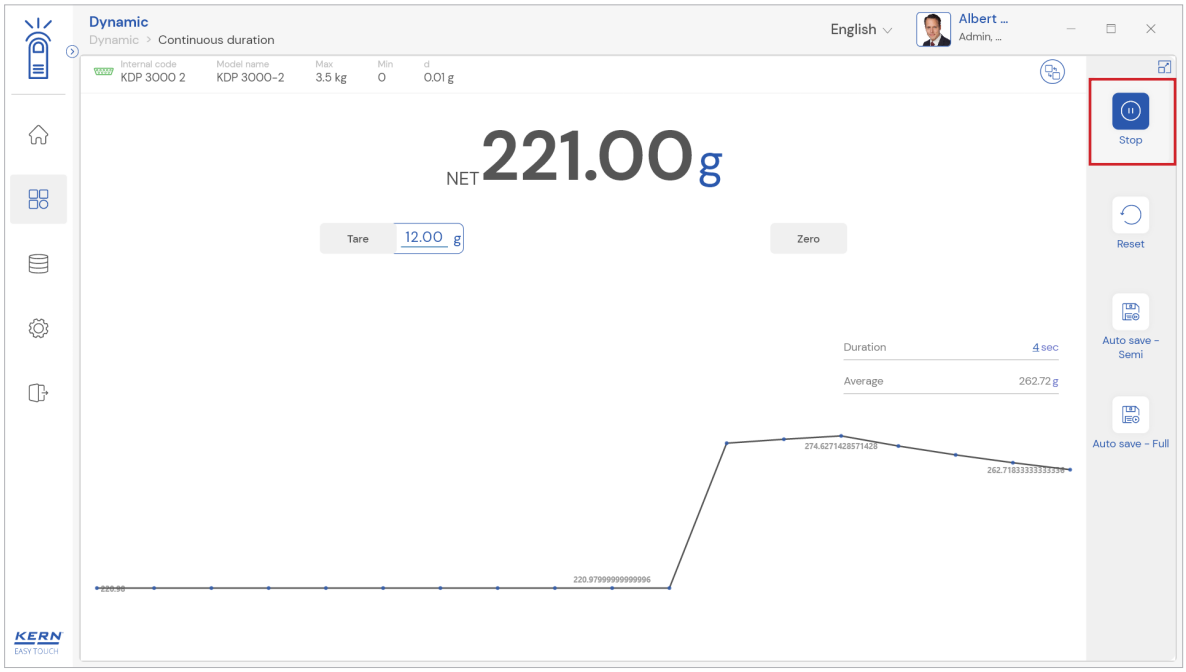


- Upon clicking on “continuous mode” the continuous duration weighing screen will be displayed and the duration along with average will be displayed in the screen
- Load the weighing scale and click the “start weighing” button.



- When the user clicks the start weighing button, a timer will begin and the average will appear according to the weighing objects moving on the scale.

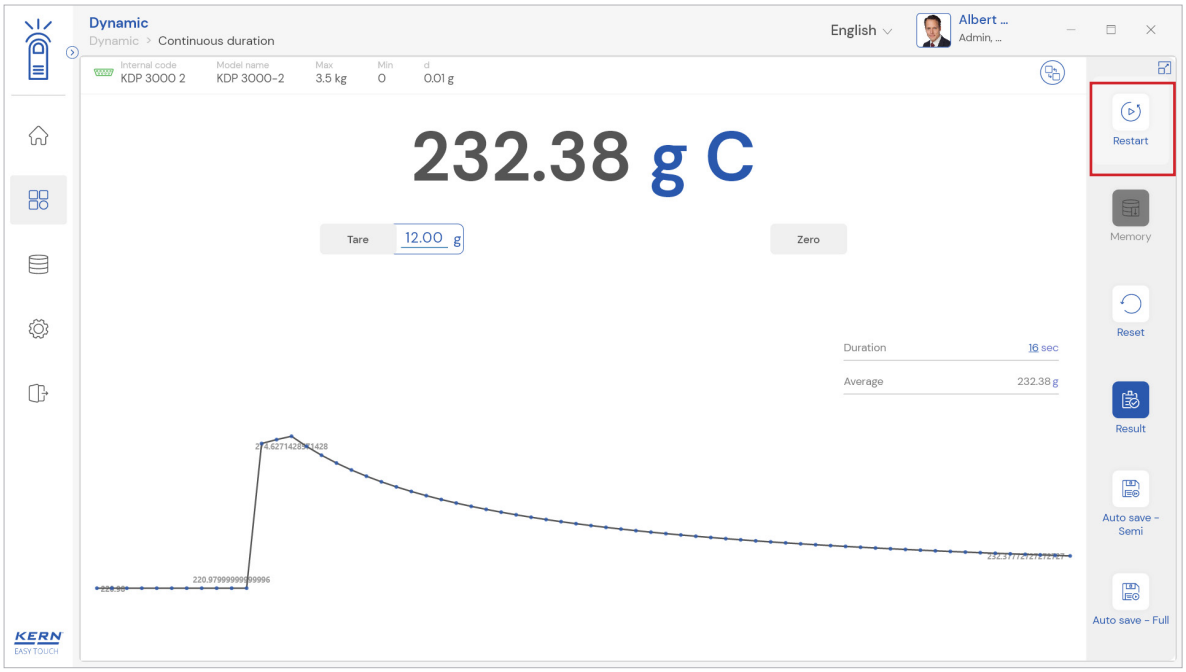




- The user will also see a graphical representation of the average weight deflection on the dosing screen. The user can stop the dosing if the graph appears stable, and the average will appear.
- The “stop” button can be clicked whenever the graph appears stable or when it appears the average has been calculated.
- The result button will be enabled once the stop button is being pressed which allows the user to proceed in saving the data.

3.3.1 Repeat the weighing process

Clicking on the restart button the same weighing process can be repeated as often you want.

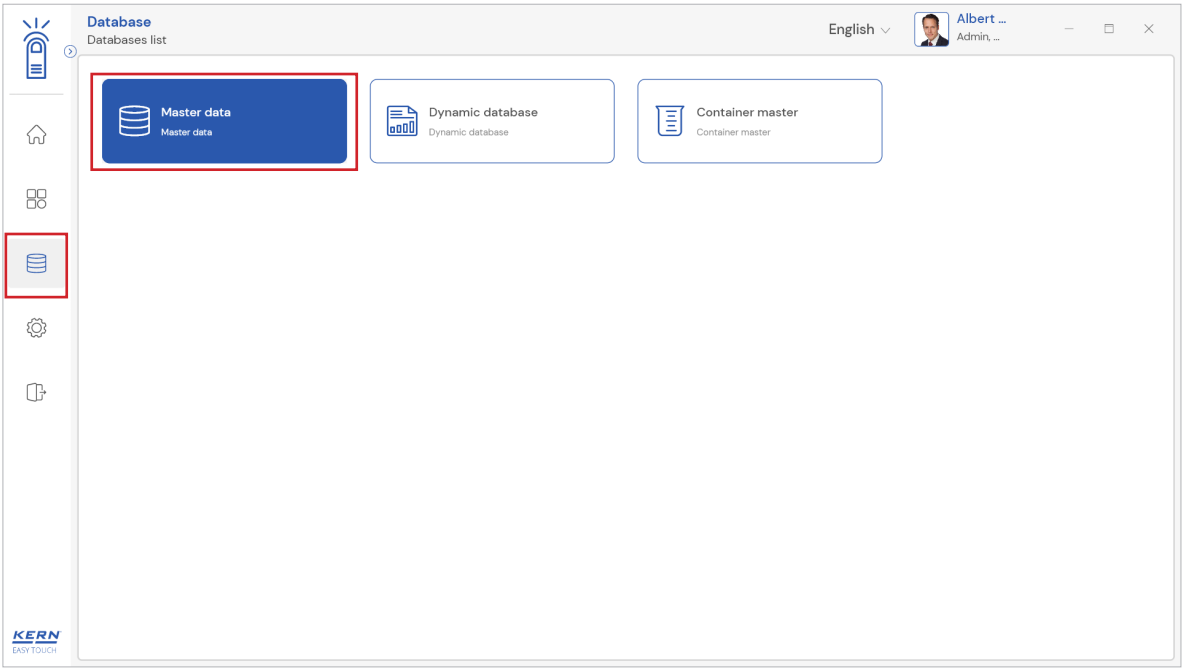


3.3.2 Memory

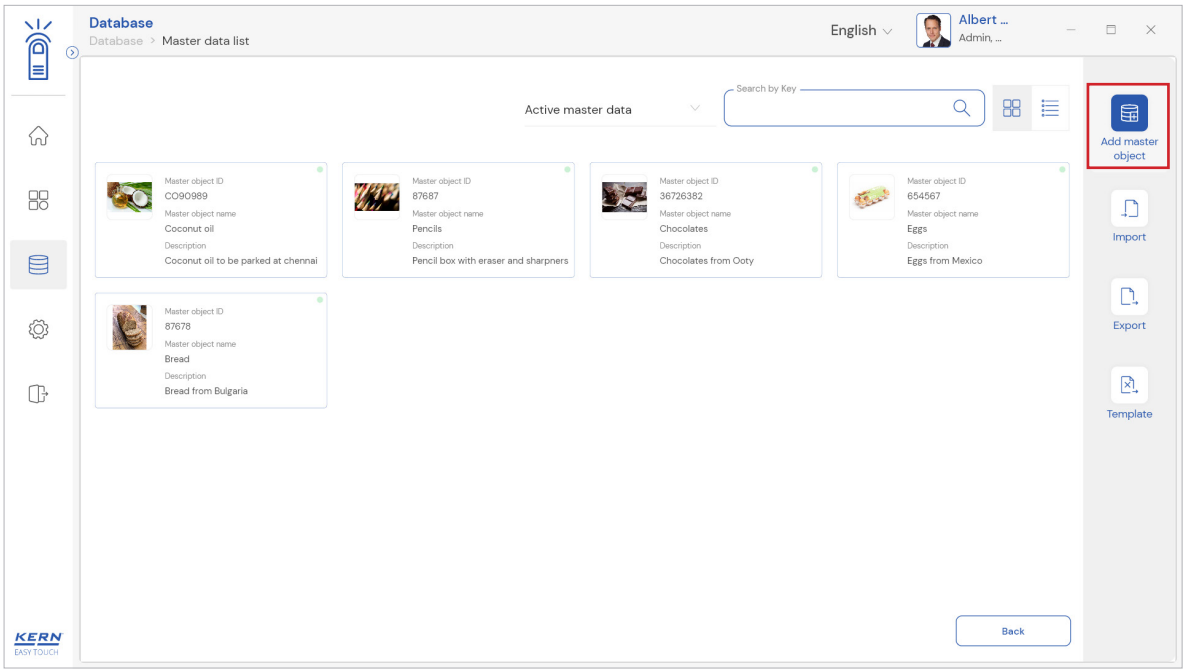
The user might be able to pick an object from the memory where the user can predefine list of objects what you use frequently. The object in the memory can be reutilized.

Steps to be followed to create a master data with functional properties

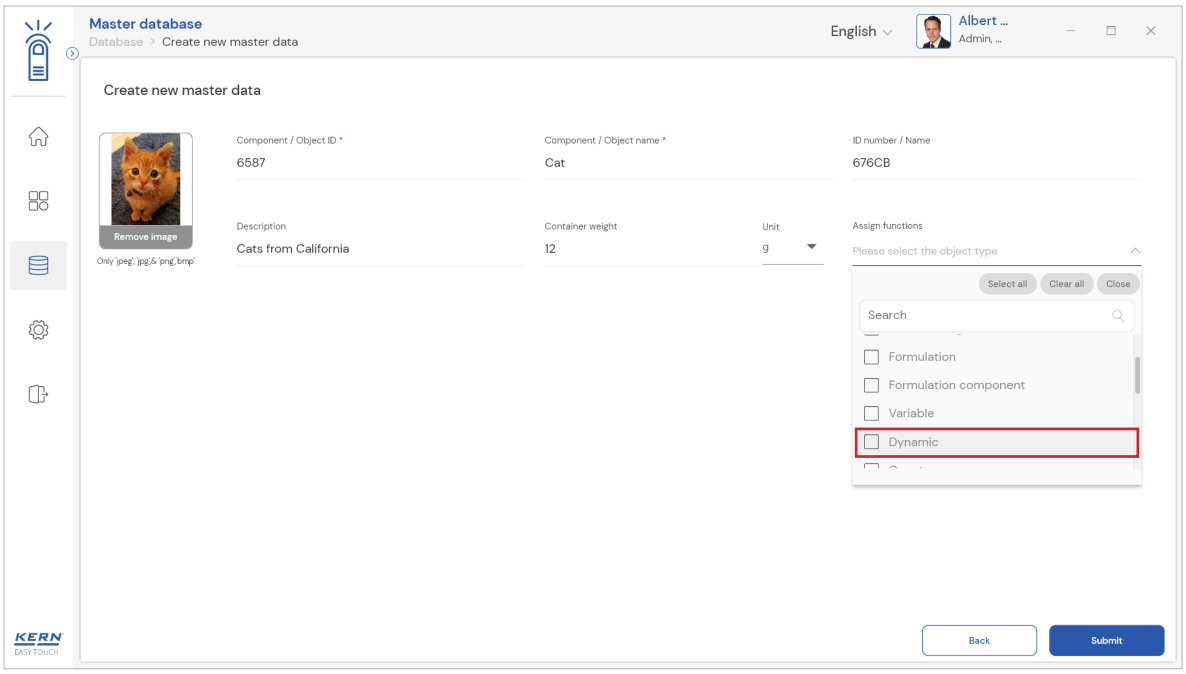
- Click on the database icon and redirect to the master data.



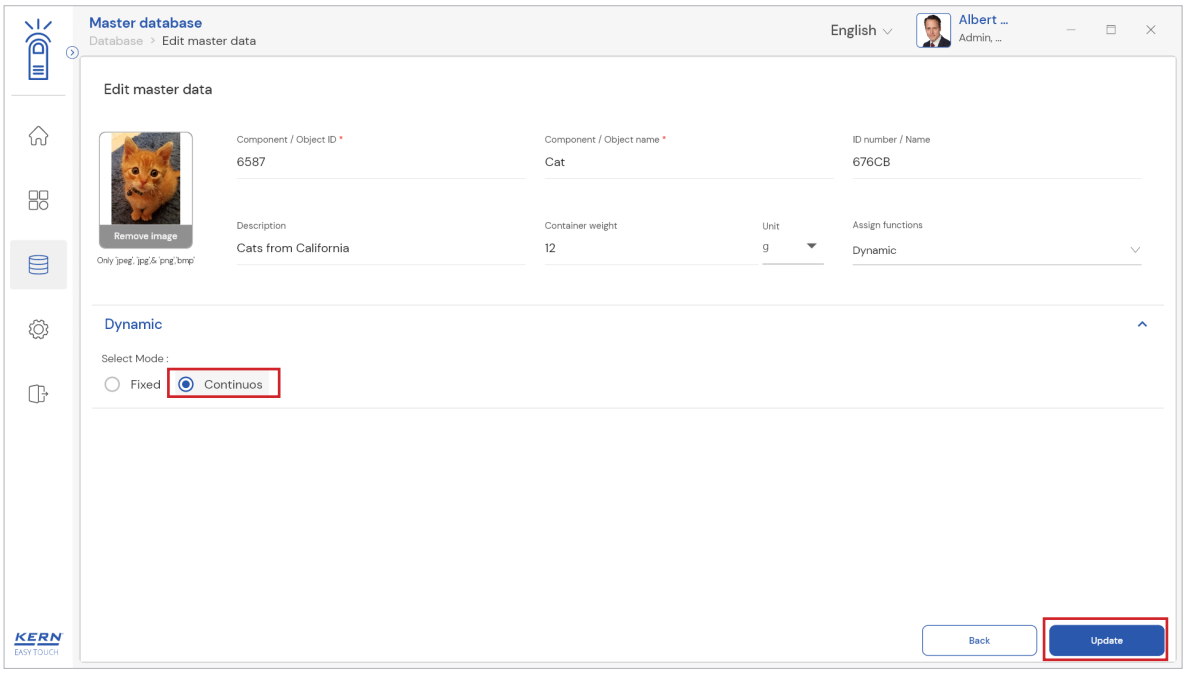
- The below screen would be displayed. The user might be able to see the list of master data objects created here.
- The user can click on the “add master object” to create a new master object.



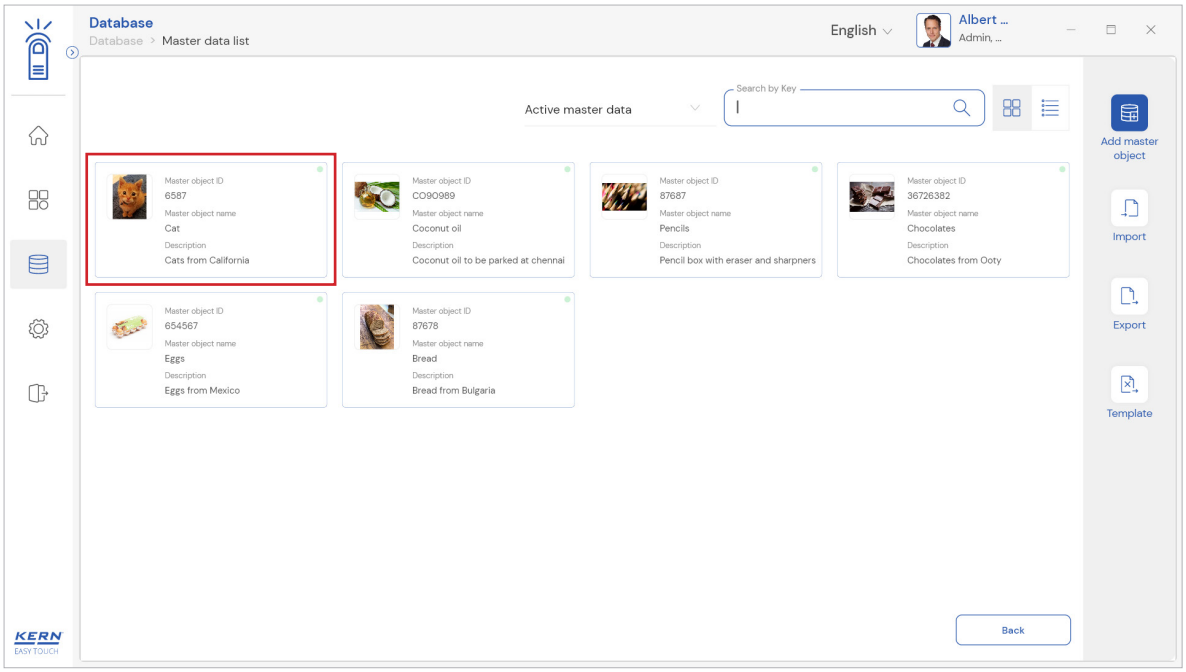
- The user can fill in the information as such component / object ID, component / object name, ID number / name, description, container weight and the image for the reference.
- Now user can select the required function “dynamic” to utilize the properties.



- Upon clicking the function, the functional properties to select between fixed and continuous mode will be displayed.
- User can choose the continuous mode.
- After the mode is choosen click on submit to save the master object.

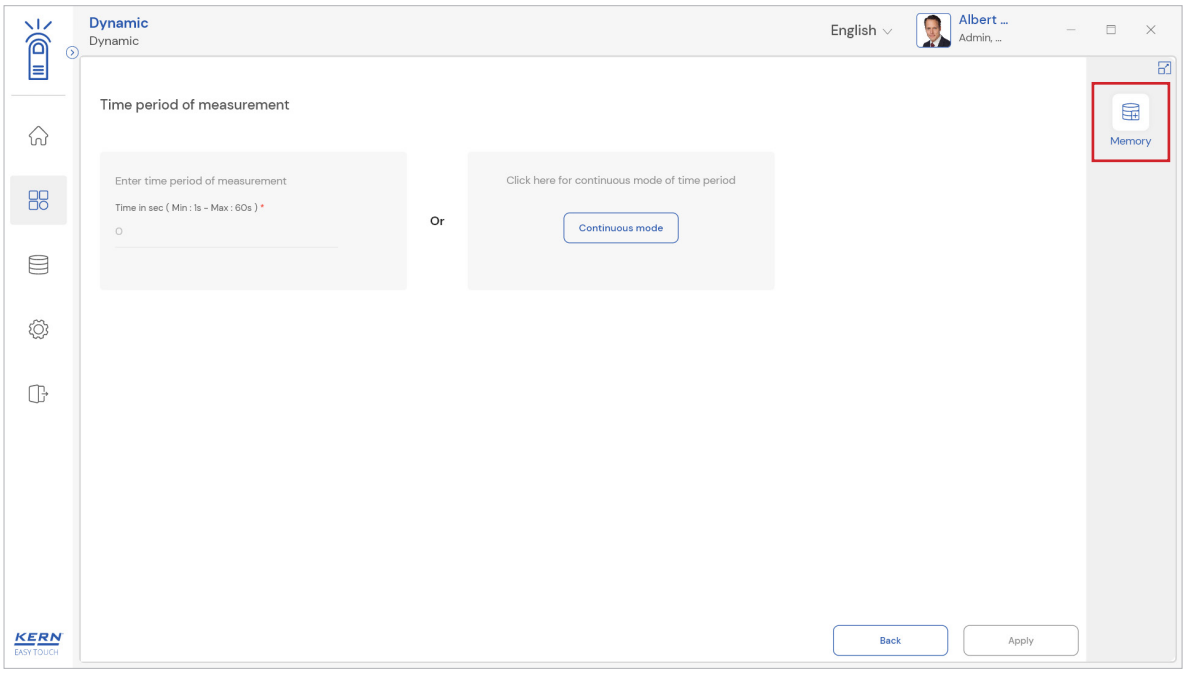


- The master object data is being saved and user could be able to view the created master object in the master list.

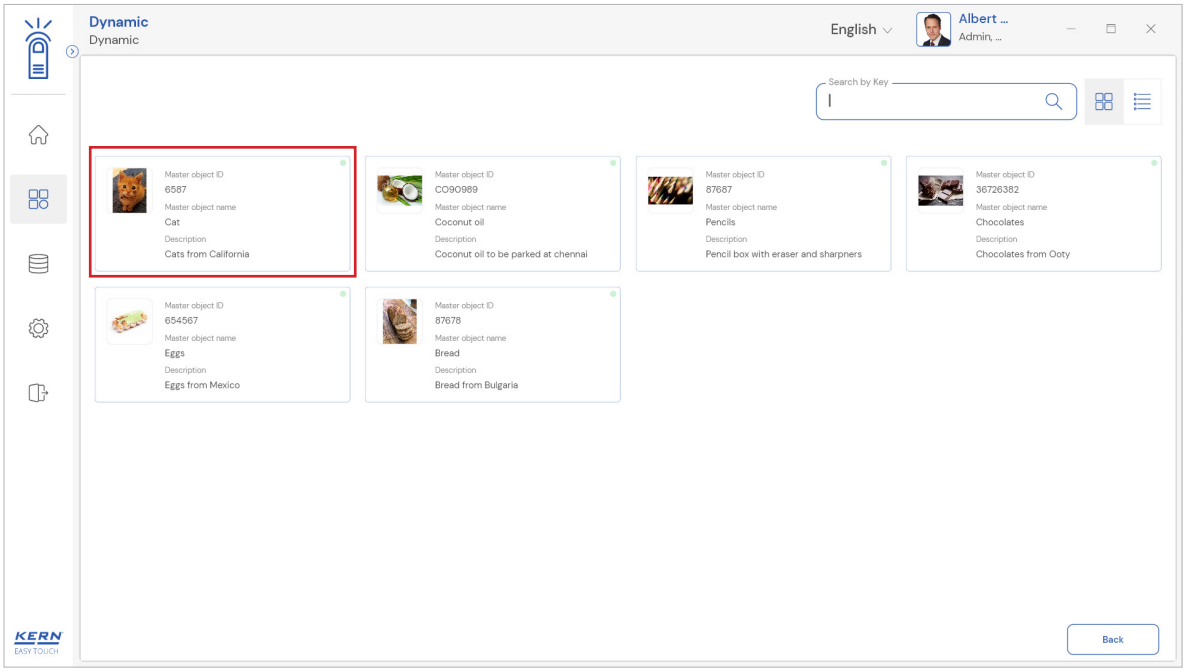


Steps to be followed to utilize the master data in function

- Navigate to the function dynamic and choose the option “memory”

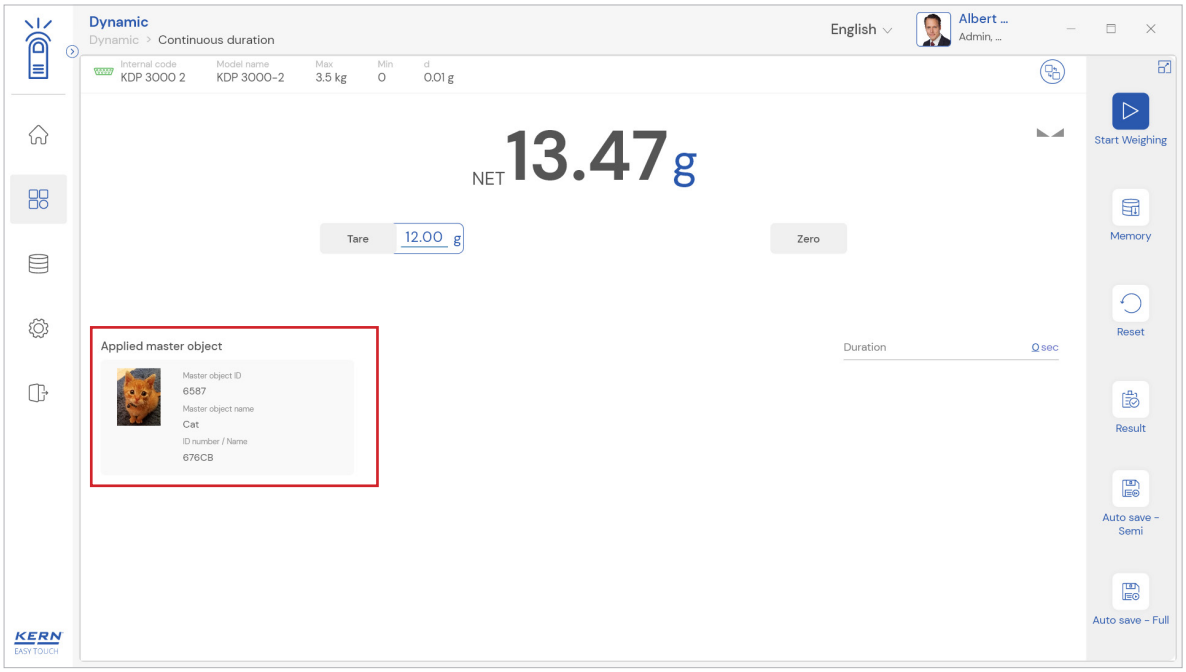


- Clicking on the memory and the user will be taken to the master memory to pick from the list of objects predefined. User can click on the required object to be weighed.
- User will be provided with the search option to search the required weighing object.



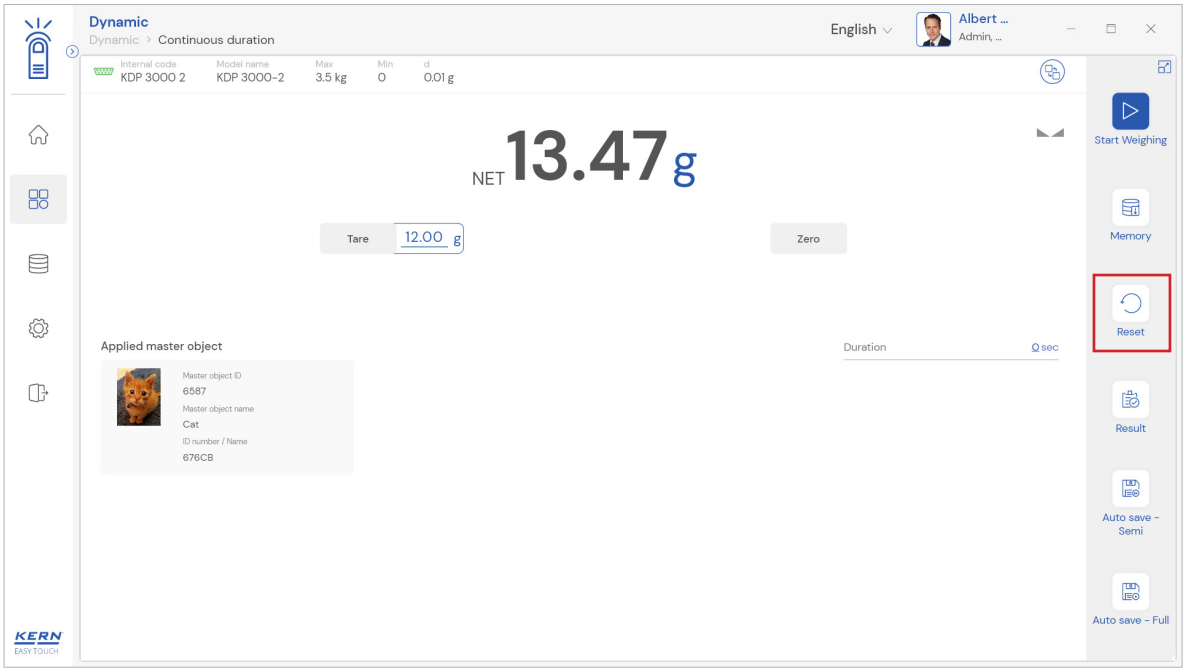
- User will be redirected to the weighing screen upon clicking the required object.

English

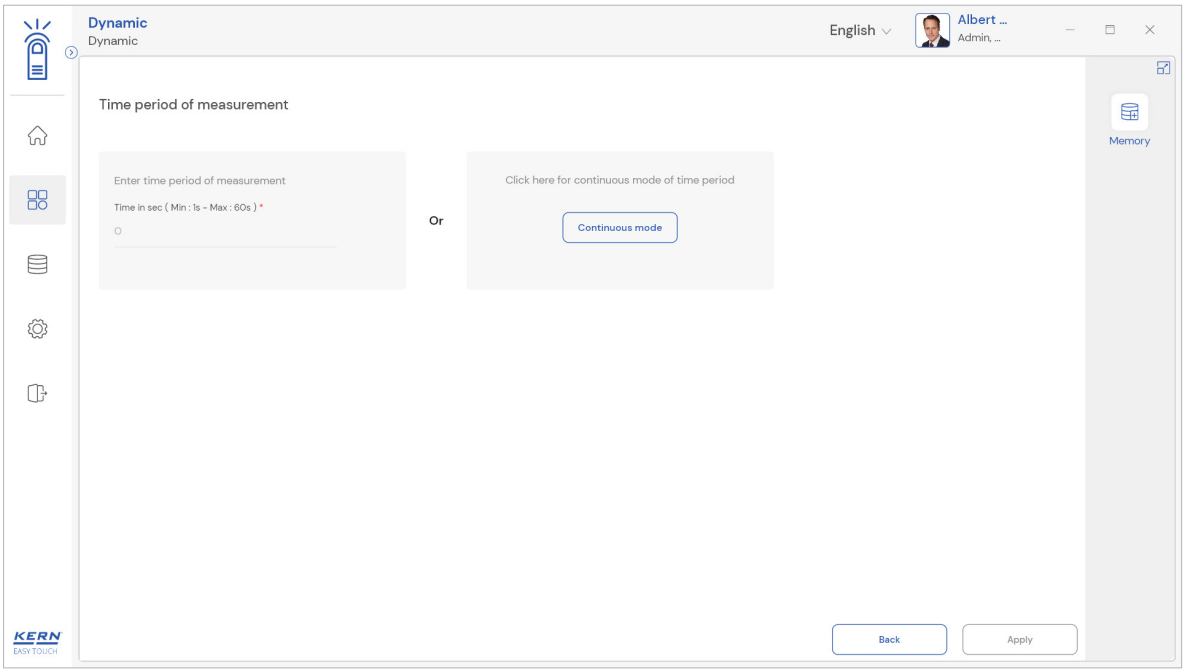


3.3.3 Reset

The purpose of reset is to clear the stored readings.



Upon clicking the reset, system will reset all the weighed data and the master data applied and will be ready to perform the new operation



3.4 Auto save

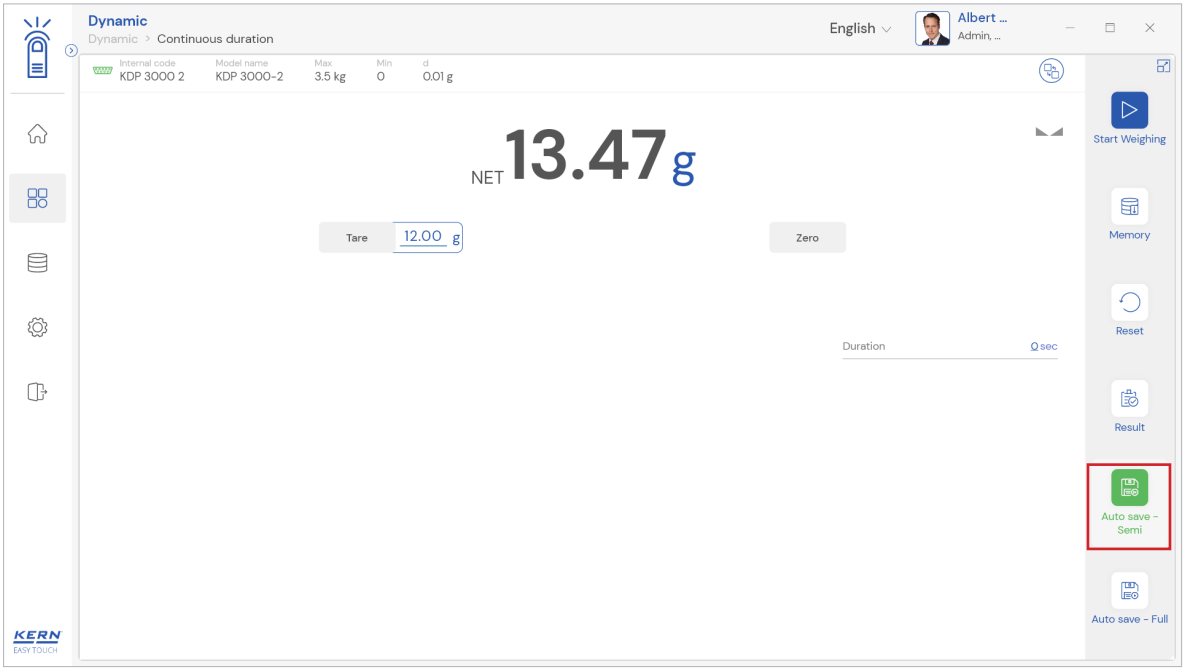
3.4.1 Auto save semi

The purpose of auto save semi is to avoid pressing the result button once the measurement is done.

- In the event that the defined time begins and ends, the user will be automatically directed to the results screen.
- This might be useful in reducing the work of operators as they might not need to press the result button every time.

Steps to be followed:

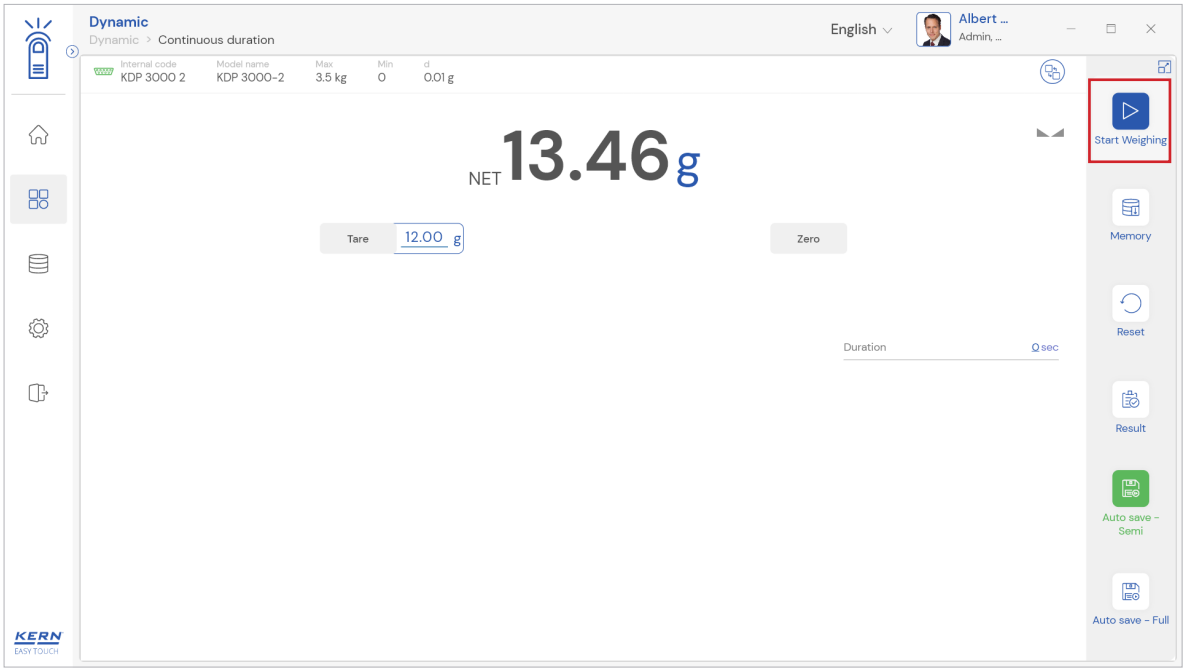
Step 1: Enable auto save semi.

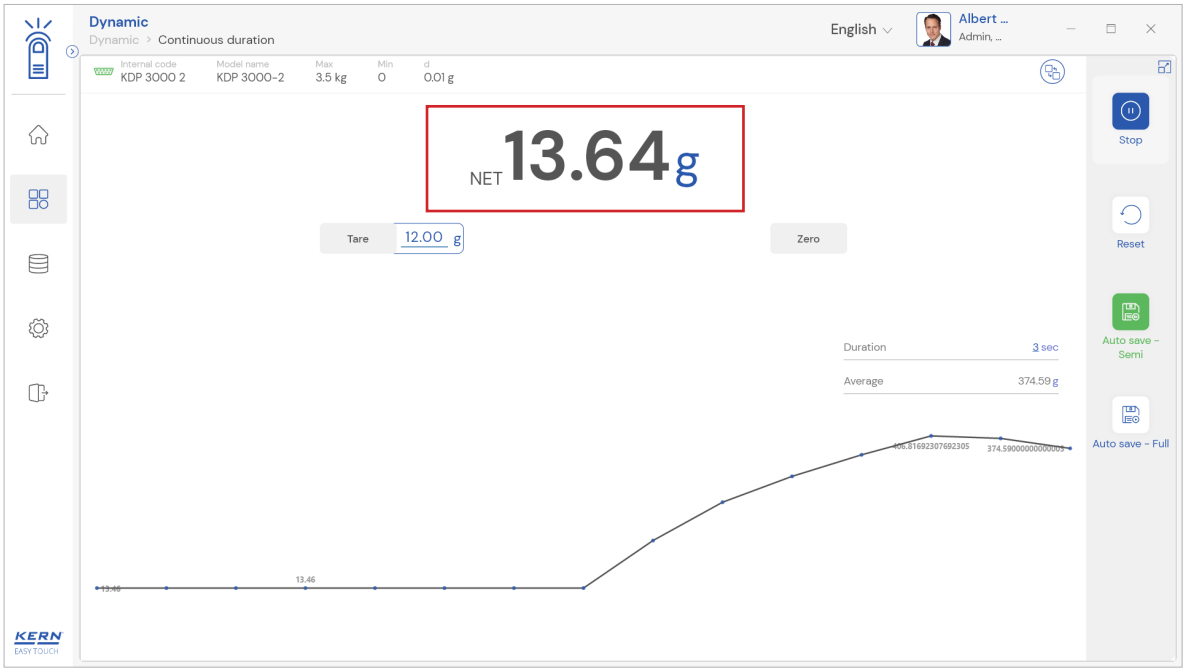


Step 2: Place the object that is required to find the net weight

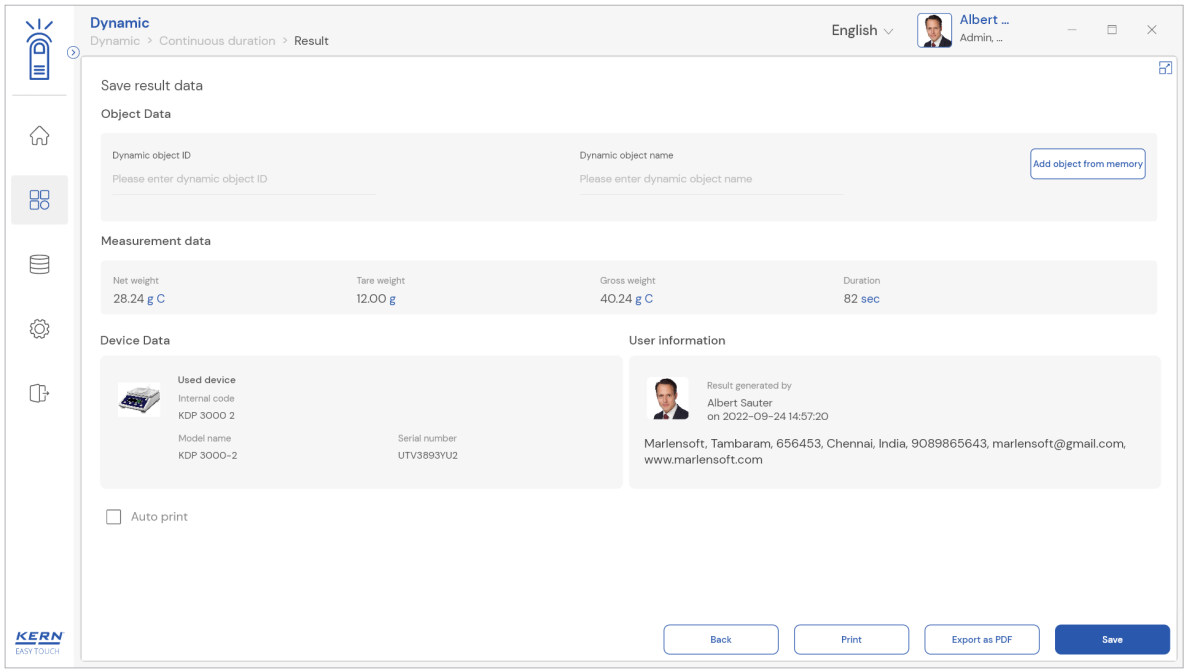
English

Step 3: Wait until the weight on the scale is stabilized
Step 4: Click on start weighing and stop whenever is required





Step 5: Once the stop is clicked, the user will be automatically taken to the result screen.



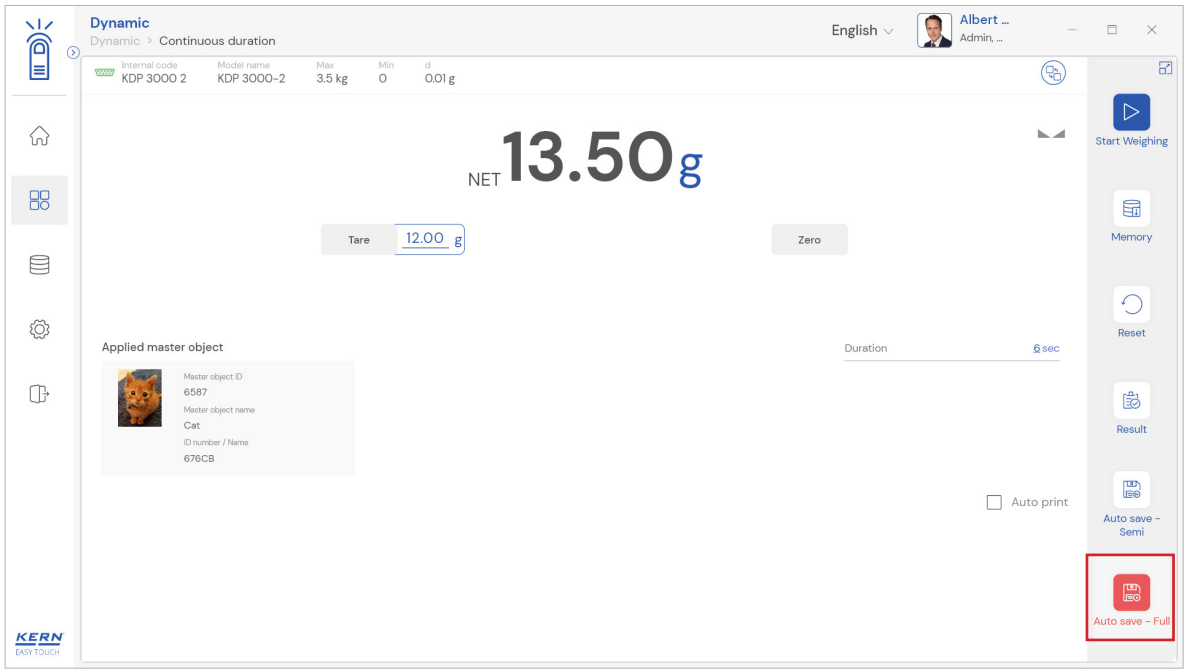
3.4.2 Auto save full

The purpose of auto save full is to save the result automatically without moving to the result screen every time once the measurement is done.

- In the event that the defined time begins and ends, the system will automaticallysave the result to the dynamic database.
- This might be useful in case if the operators in the industries are handling chemicals and might not be able to touch the application screen due to grease or other conditions.

Steps to be followed:

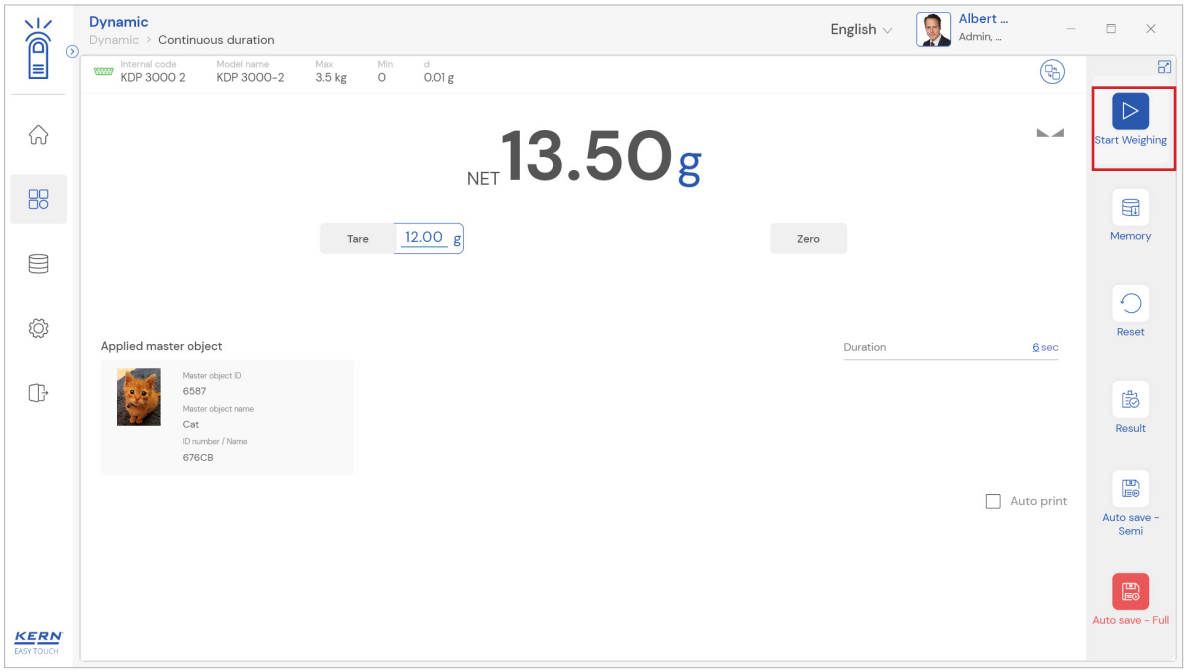
Step 1: Enable auto save full.



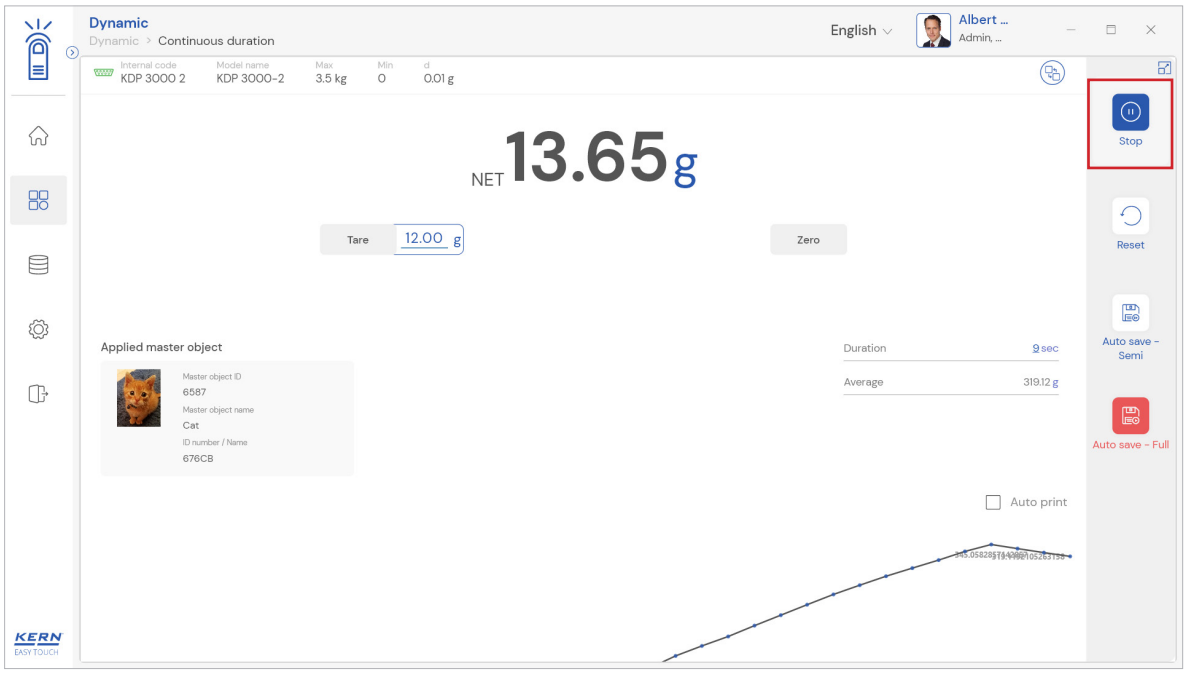
Step 2: Place the object that is required to find the net weight

Step 3: Wait until the weight on the scale is stabilized

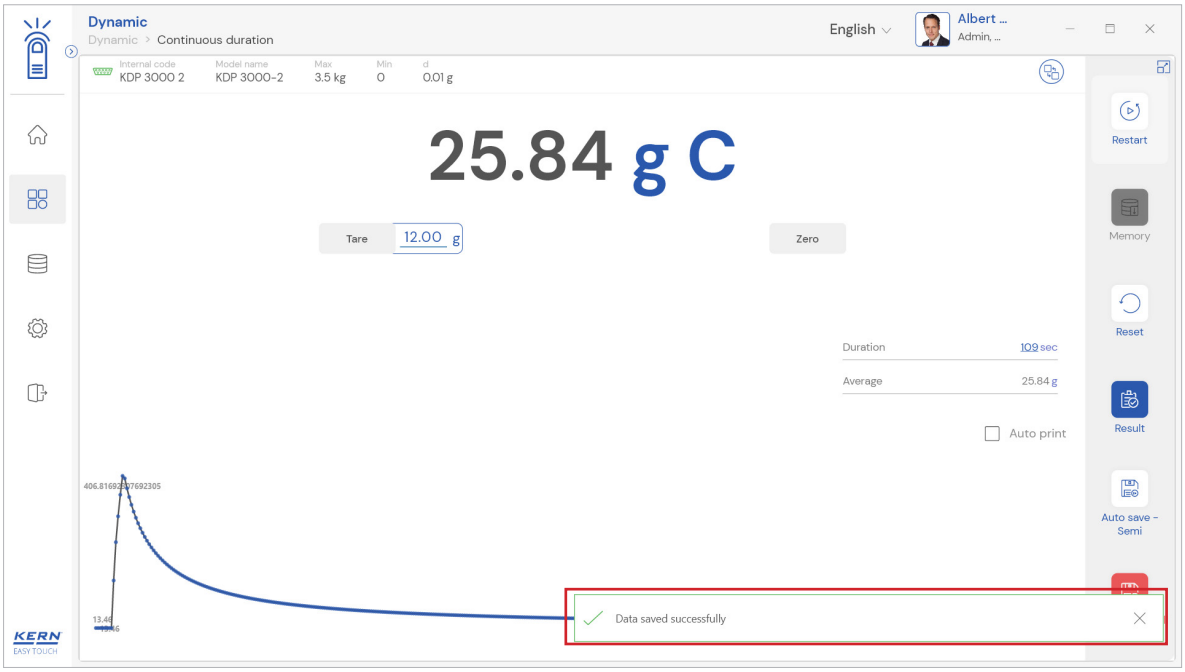
English



Step 4: Click on start weighing and stop whenever is required



Step 5: The system will automatically save the result in dynamic database when the stop button is clicked. The user can enable the auto print in case wanted to print the data automatically upon saving the data in dynamic database.

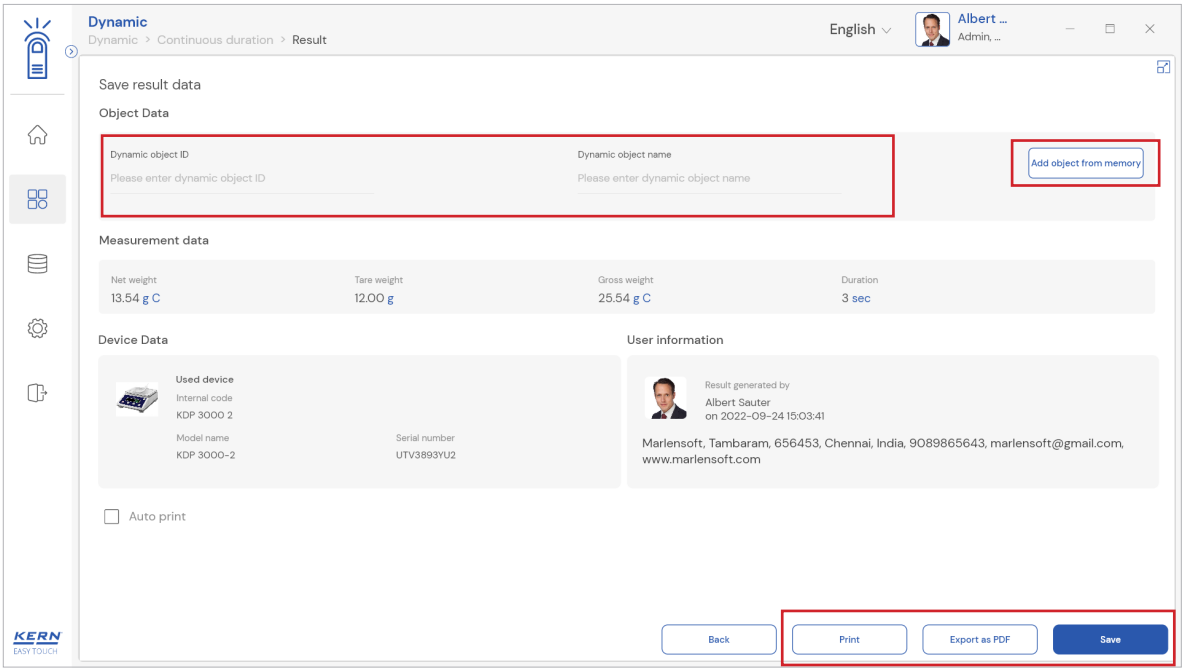


4.0 Result data

4.1 Measurement data

An overview of the determined data appears upon clicking on the button “end”.
The below screen appears upon clicking the end button. The user might be able to view the complete result data.

Here, the user might be able to



4.1.1 Add object from memory

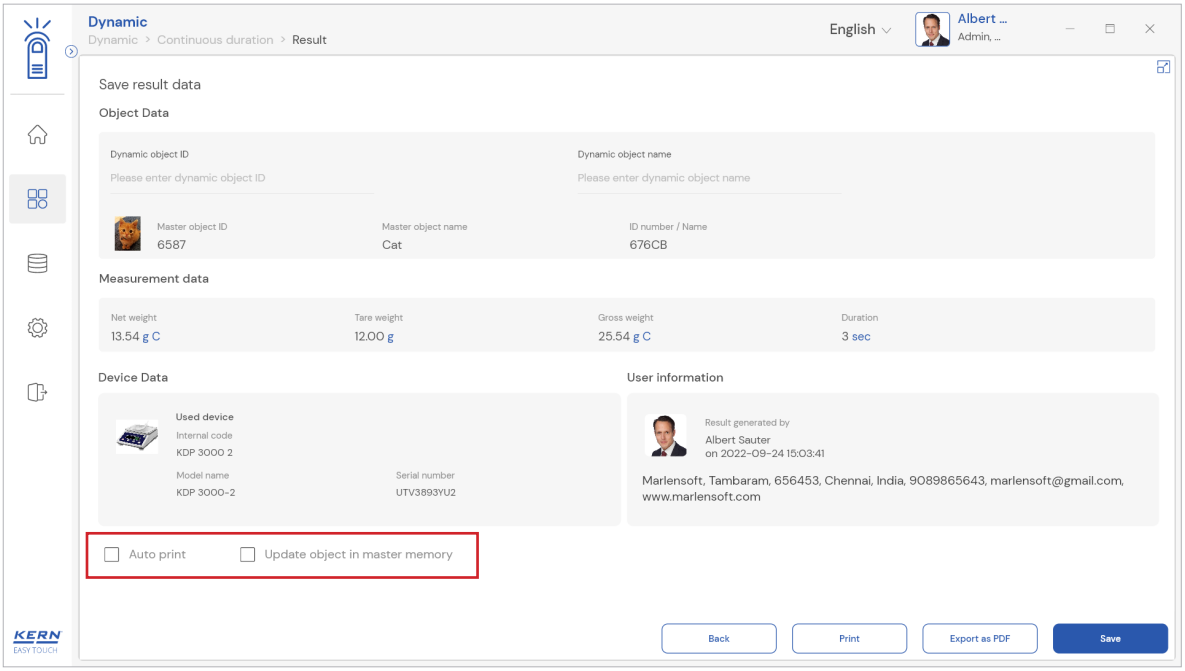
The user might be able to pick an object from the memory where you can predefine list of objects what you use frequently. The object in the memory can be reutilized.

4.1.2 PDF, print and save

The user can save the data, generate the result data as an PDF or excel or print the results. All the saved results would be found in the dynamic database.

4.1.3 Dynamic object ID and name

The user can enter a reference id and name to the weighing objects to stay unique and search based on the dynamic id and name in the dynamic database (after the result data is being saved) regarding the weighing results of an object.



4.1.4 Update object in master memory

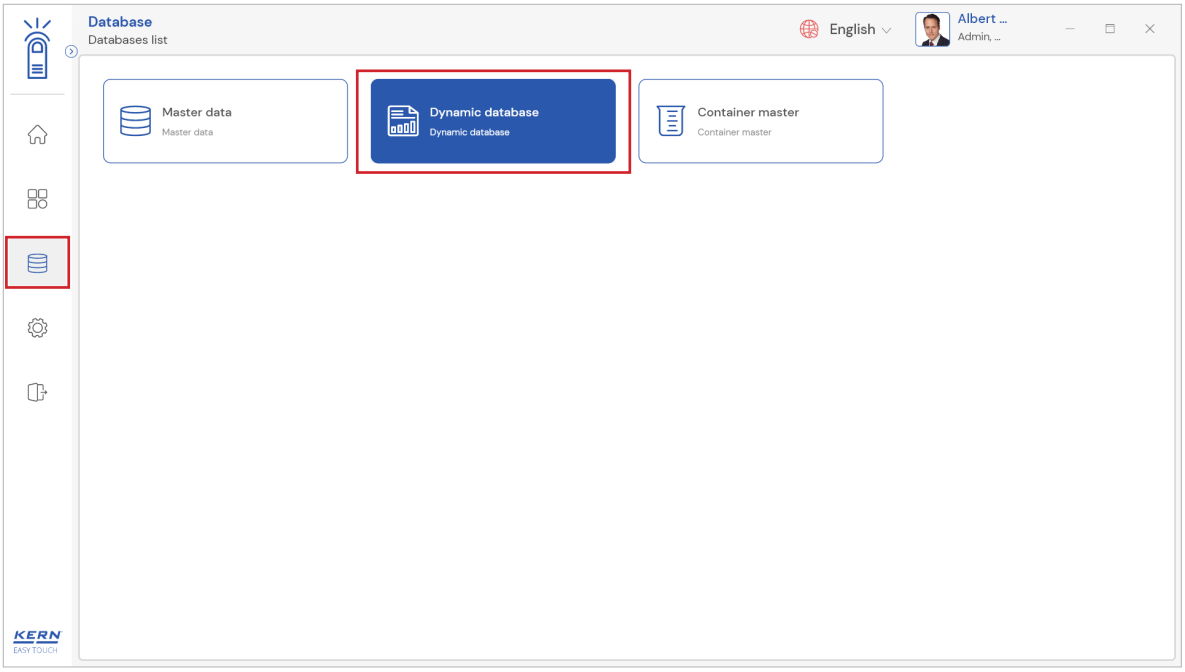
The user can be able to save the functional properties of the object in the master memory to reutilize the data by clicking on the “Update object in master memory”.
For example, the container weight will be updated in the master memory and can be utilized for future purposes.

4.1.5 Auto print

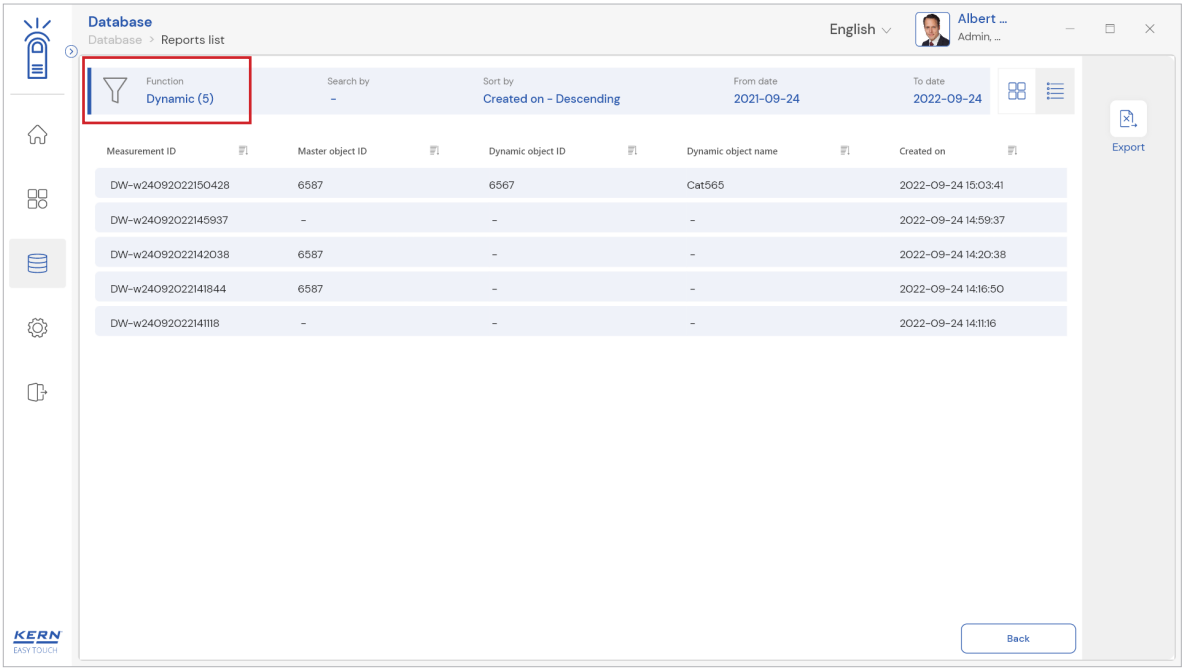
The user will have an option to save and print on a single click. This allows the user to print the data with the measurement ID.
Once the save button is clicked, the balance is again on weighing mode.

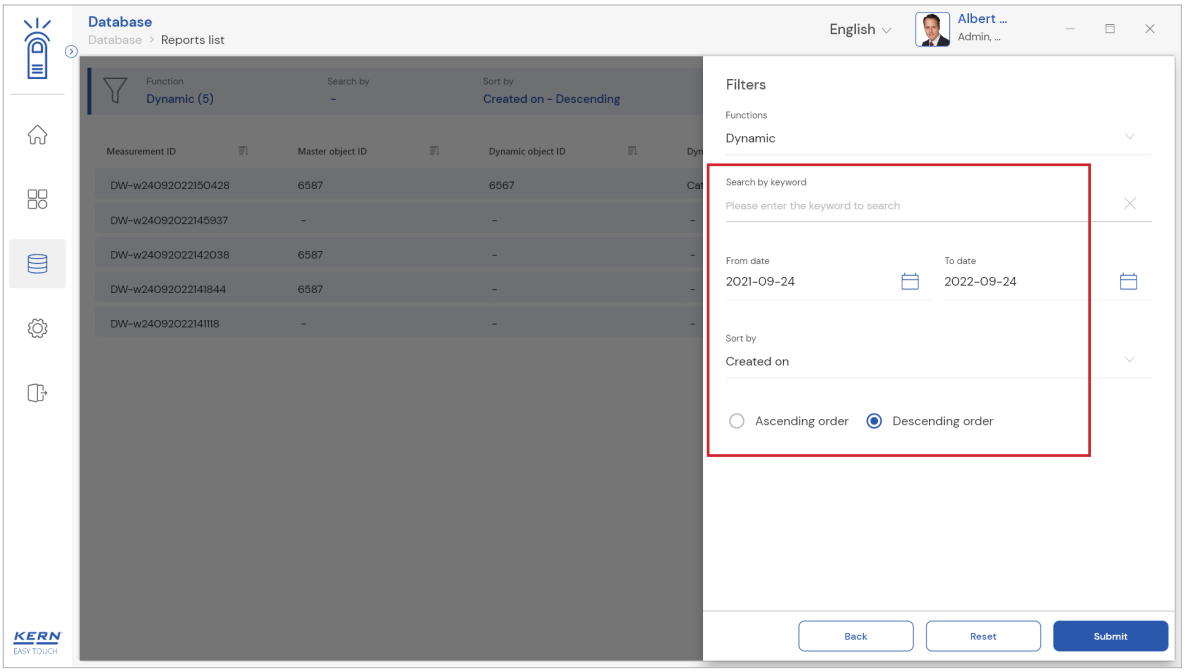
5.0 Dynamic data

All the saved data would be found in the dynamic database. Click on the database icon and navigate to the dynamic database

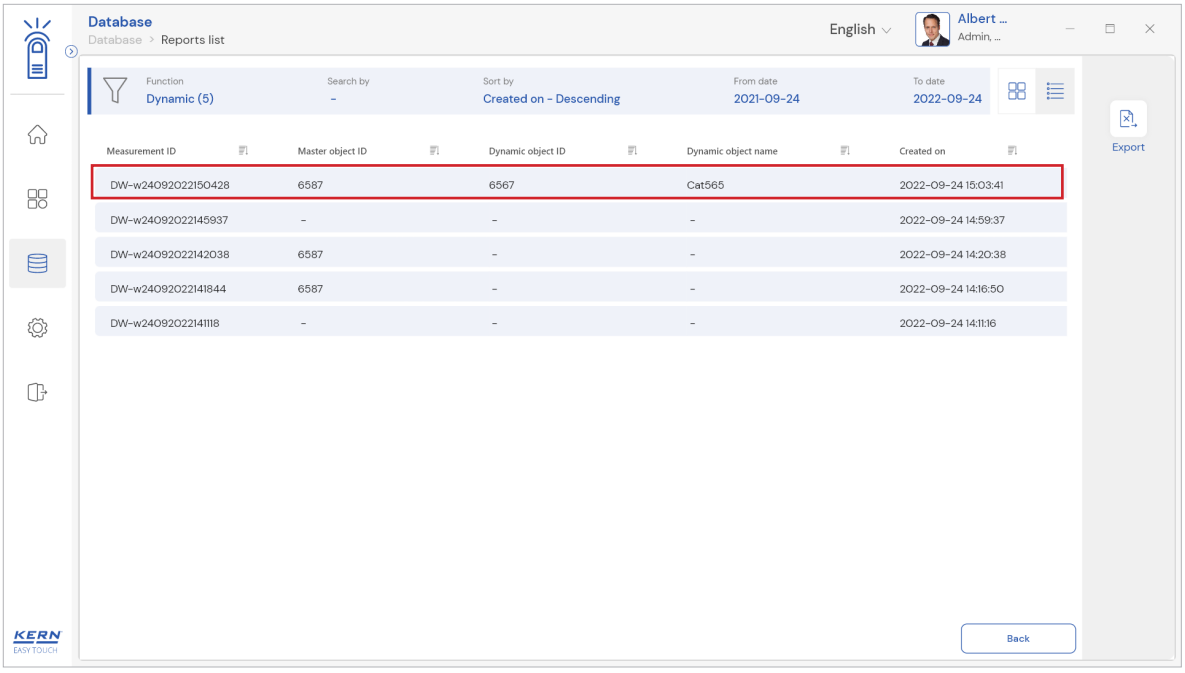


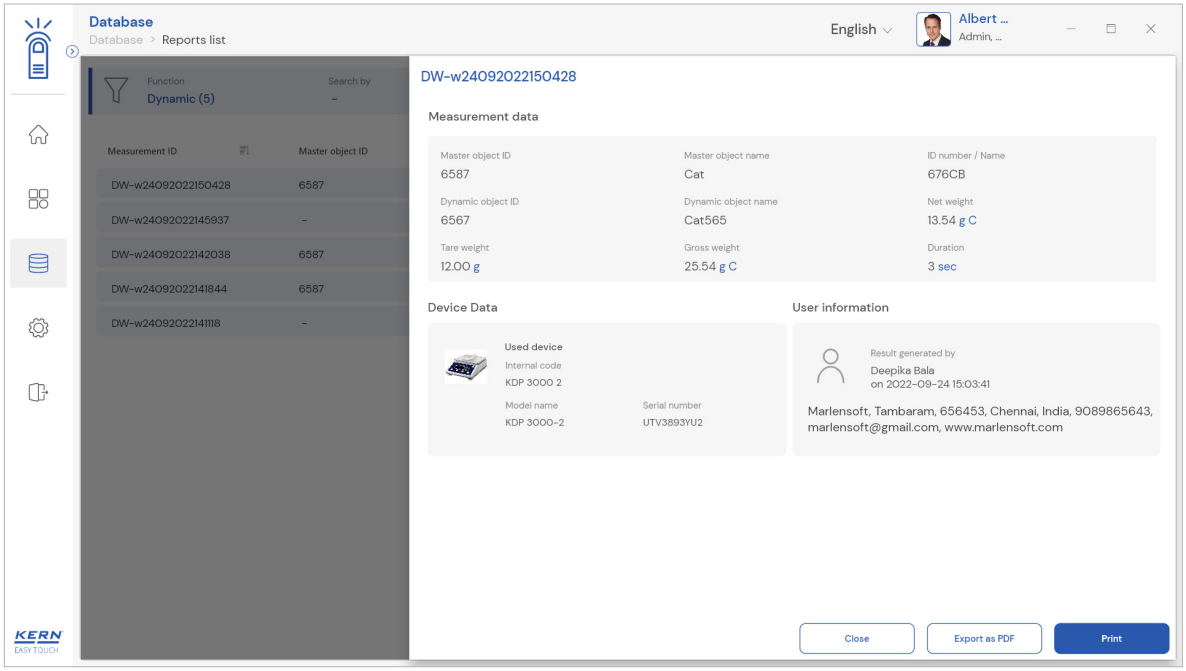
- Kindly note, the last function which is been used would be displayed by default.
- Click on the filter and the below screen would be displayed. Choose the respective filters for quick search of data





- The list of dynamic data saved against the set filter would be found here
- Click on the required transactional data to see the complete set of details





- The saved data can be printed or can be exported as PDF.

The end