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# Operating instructions KERN Software Easy Touch

## KERN SET 01

Version 1.1  
2020-10  
GB



The current version of these instructions can also be found online under:  
<https://www.kern-sohn.com/shop/de/DOWNLOADS/>  
Under the section Operating instructions

SET-01-BA-e-2011\_basic



**KERN Easytouch**  
Version 1.1 2020-10  
**Operating instructions**  
**SET 01**

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# 1 Hardware and software requirements

## Software Requirements

- Operating system: from Microsoft Windows 10 with all required updates (should the installation not be able to be installed successfully, please install all required Windows update)
- Microsoft .NET Framework 4.0 (included in scope of delivery)
- Android

## Hardware requirements

- Processor: 1 (GHz) or faster
- Working memory: 4 GB
- Hard disk: at least 16 GB for 32-bit OS or 20 GB for 64-bit OS
- Free serial interface (RS232) or
- USB
- Ethernet interface, or
- WLAN/WiFi or
- Bluetooth interface

	<p><b>EasyTouch Apps – available in the:</b></p> <ul style="list-style-type: none"><li>• Microsoft Store® (Windows version) Search term: „KERN“, „EasyTouch“</li><li>• Google Play Store® (Android version) Search term: „KERN“, „EasyTouch“</li></ul>
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## 2 Overview of EasyTouch applications

Type/Item number (internal)	Model	Description
TSET-01-B	<b>SET-01</b>	<b>OS Basic-ET license</b> (Weighing basic (incl. Save-Data, Local + Master Data), (contains the applications: Totalisation, Quick Dosing, Percentage Weighing)
TSET-02-A	<b>SET-02</b>	<b>Lab-Set</b> (contains the applications: Formulation, Difference Weighing, Density Measurement)
TSET-021-A	SET-021	Formulation
TSET-022-A	SET-022	Difference
TSET-03-A	<b>SET-03</b>	<b>Industry-Set</b> (contains the applications: Checkweighing, Count, Target Count)
TSET-031-A	SET-031	Checkweighing/Tolerance
TSET-032-A	SET-032	Piece Counting
TSET-033-A	SET-033	Target Count
TSET-04-A	SET-04	Density
TSET-05-A	SET-05	Dynamic
TSET-06-A	SET-06	Classify
TSET-07-A	SET-07	Variable
TSET-08-A	SET-08	Take-Out
TSET-10-A	SET-10	Save-Server
TSET-13-A	SET-13	Individualisation
TSET-14A	SET-14	Edit Printout (Customize)
TSET-10-A	SET-10	Save Server
TSET-101-A	SET-101	Save-Cloud

<b>TSET-12-A</b>	<b>SET-12</b>	<b>Pharma Set</b>
TSET-121-A	SET-121	Pharma Production
TSET-122-A	SET-122	Pharma QS
TSET-123-A	SET-123	Validation template
TSET-124-A	SET-124	Anti-Cybercrime mode
TSET-125-A	SET-126	Lab Journal function
TSET-126-A	SET-126	Pharma Filling & labelling
<b>TSET-15-A</b>	<b>SET-15</b>	<b>Bottle Weigh Set Set</b>
TSET-151-A	SET-151	Bottle Weigh - Basic
TSET-152-A	SET-152	Bottle Weigh Cockpit
TSET-153-A	SET-153	Bottle Weigh – Barman checks
TSET-154-A	SET-154	Bottle Weigh – Notifications & scheduling
TSET-155-A	SET-155	Bottle Weigh – Bartender Premium functions
TSET-159-A	SET-159	Any POS connection
TSET-16-A	SET-16	Batch & Statistics
<b>TSET-17-A</b>	<b>SET-17</b>	<b>PrePack Set</b>
TSET-171-A	SET-171	PrePack Basic
TSET-172-A	SET-172	PrePack Bottle Check
TSET-26-A	SET-26	Sensor & commands
TSET-27-A	SET-27	Remote by App
TSET-28-A	SET-28	ERP Connect (SAP, Sage, etc.)
TSET-29-A	SET-29	Premium Support
TSET-30-A	SET-30	Picture function




<b>i</b>	The operating instructions of every application can be found in the download area of the respective application.
----------	--

### 3 Download and Installation Base License SET-01

- i
 For a download in the respective store a user account could be required
- i
 Fields with \* are obligatory fields
- i
 The base license (SET-01) is always required.  
 It is the base for working with KERN Easy Touch.

#### 3.1 Download and Installation

In the start menu click the button Microsoft Store

From Microsoft Store	From Google Play Store
<p>In the start menu click the button Microsoft Store</p> <div style="text-align: center; margin-top: 10px;">  <p>Microsoft Store</p> </div>	<div style="text-align: center; margin-bottom: 10px;">  </div> <p>Click the button KERN Easytouch</p> <div style="text-align: center; margin-top: 10px;">  </div>
<p>In the search filed enter „Kern Easy Touch“. The download starts automatically</p>	



KERN Easy Touch wird heruntergeladen... 195,0 KB von 873,2 KB

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Weitere Informationen zu schnelleren Downloads 118,1 KBit/s

## KERN Easy Touch

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★★★★★ [Teilen](#)




KERN Easy-Touch Software erweitert den Funktionsumfang von Waagen um ein Vielfaches. Mit KERN Easy-Touch kann eine Waage nicht nur wiegen, sondern auch Stück zählen, Gewichtstoleranzen bestimmen, Gewichtswerte in Gewichtsklassen einordnen, die Dichte von Substanzen berechnen, eine Rezeptur nach Anleitung durchführen und vieles andere mehr. In

[Mehr](#)



USK AB 0 JAHREN


After that the software will be installed:

 Dieses Produkt ist installiert.


## KERN Easy Touch

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★★★★★ [Teilen](#)



KERN Easy-Touch Software erweitert den Funktionsumfang von Waagen um ein Vielfaches. Mit KERN Easy-T Waage nicht nur wiegen, sondern auch Stück zählen, Gewichtstoleranzen bestimmen, Gewichtswerte in Gew einordnen, die Dichte von Substanzen berechnen, eine Rezeptur nach Anleitung durchführen und vieles and [Mehr](#)

 **USK AB 0 JAHREN**

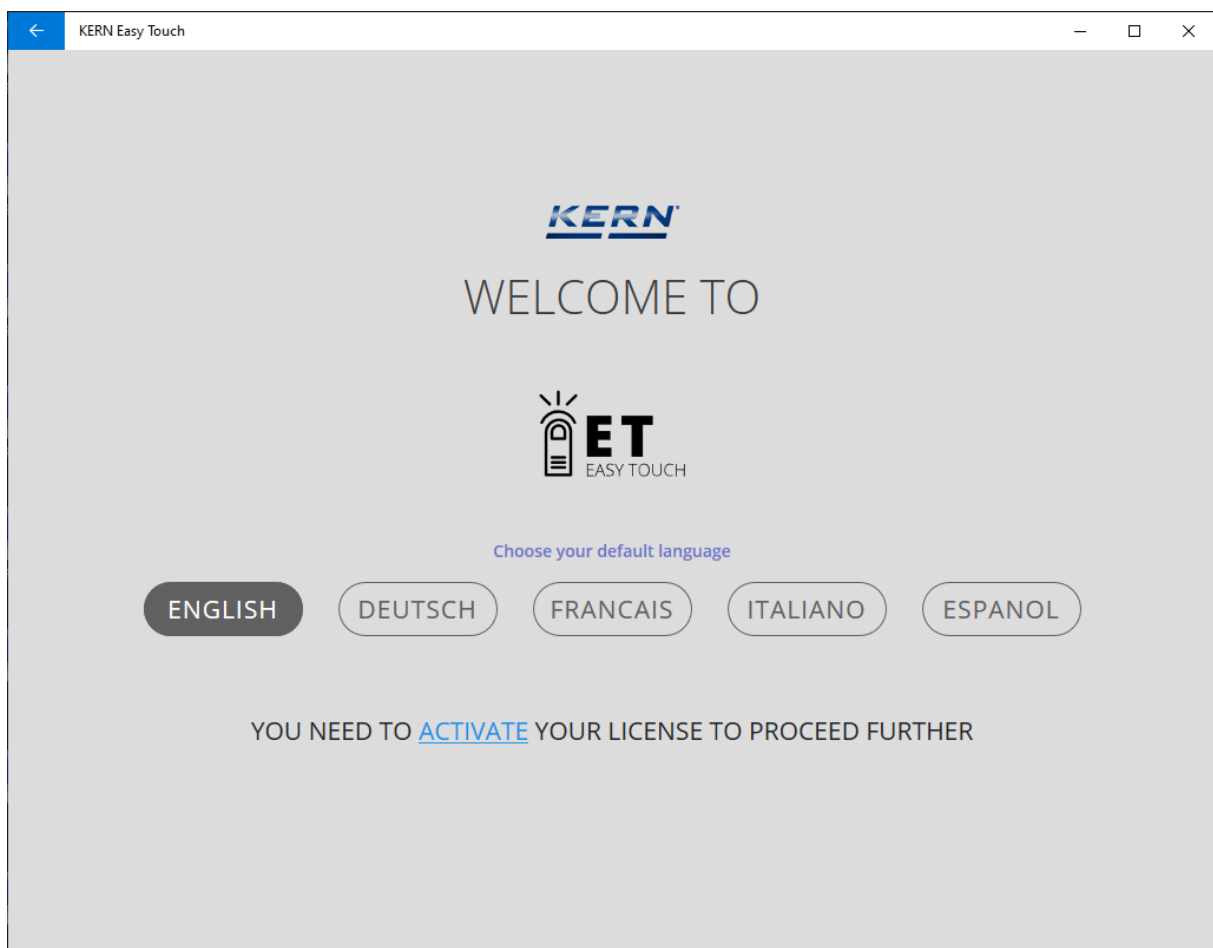


### 3.2 Activating the software

In order to start the software for the first time, click the blue „Start“ button on the right



The start screen appears - select the desired language and click ACTIVATE



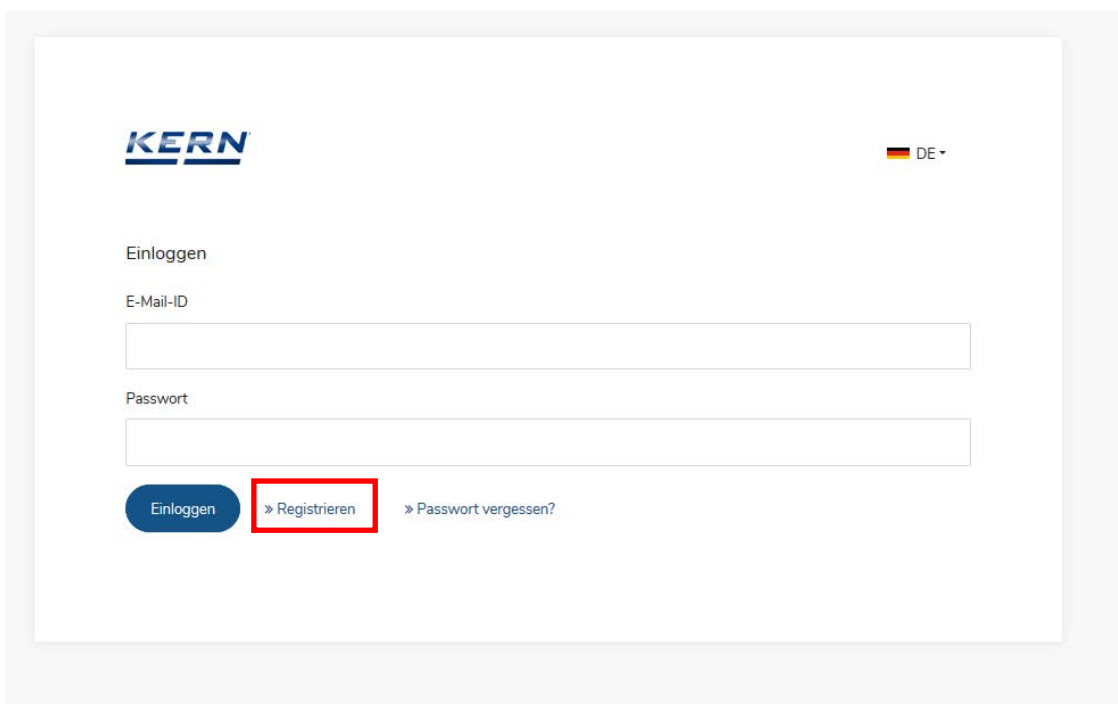
In the following screen

either:

- **if a KERN account exists:**  
enter your email address and the password in the respective fields  
after that click the blue button LOGIN

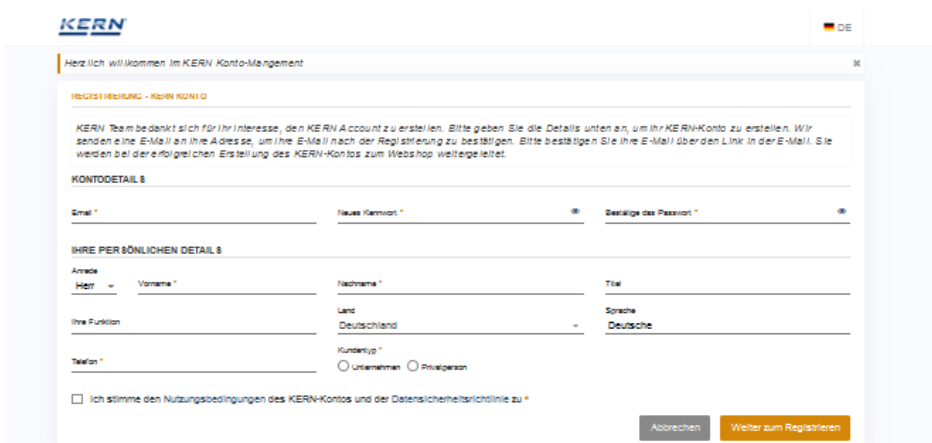
or:

- **if no KERN account is available:**  
Click REGISTERING



### How to register:

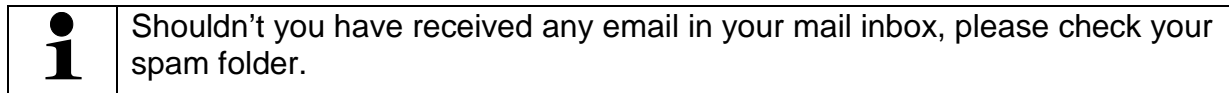
In the following screen fill out all obligatory fields and confirm your entries with the yellow button below right PROCEED TO REGISTRATION.



The account is now available:



After a short time you will receive an email with the link to confirm your email address:



Click the link in the received email:

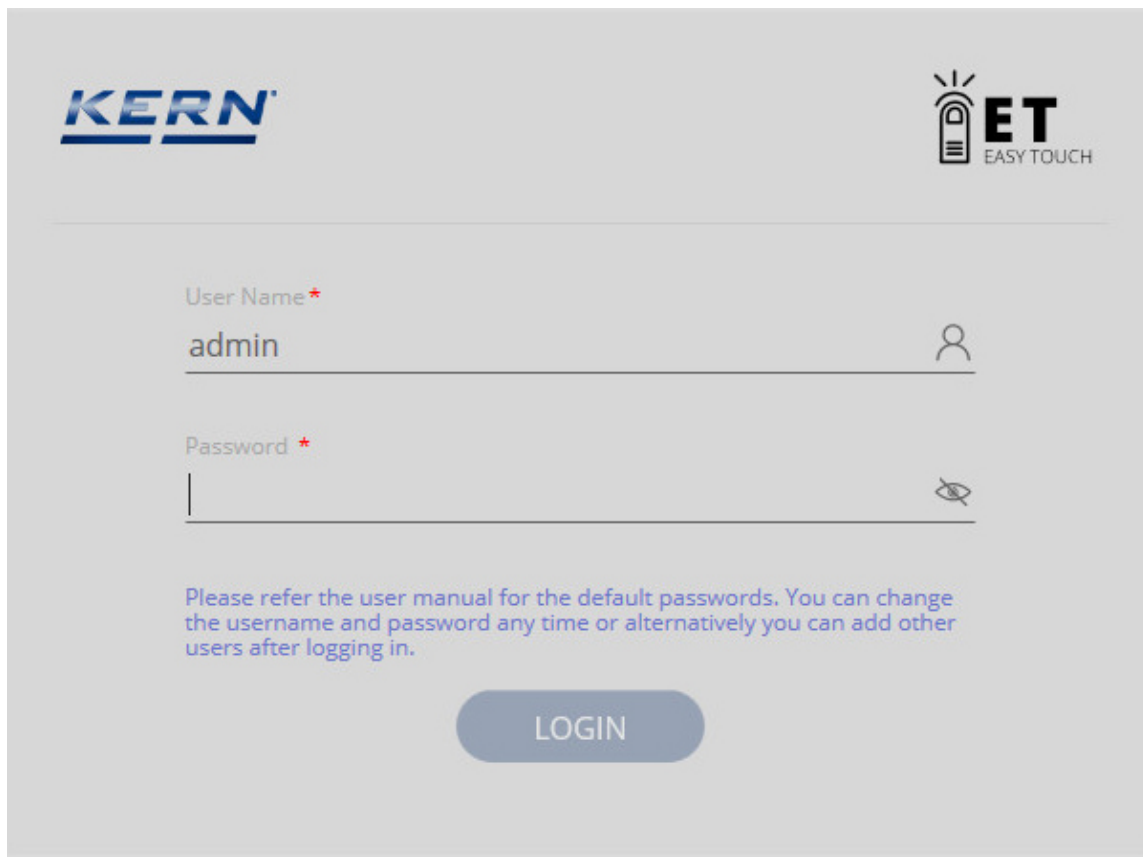


As soon as the email address is confirmed, the registration is finished successfully and you can log into the next screen and purchase the desired licenses.

Any questions? Please call or write to KERN – we shall be pleased to advise you !

- Phone: +49 (0) 7433 9933 0
- Mail: [easytouch@kern-sohn.com](mailto:easytouch@kern-sohn.com)

### 3.3 First start-up of the software



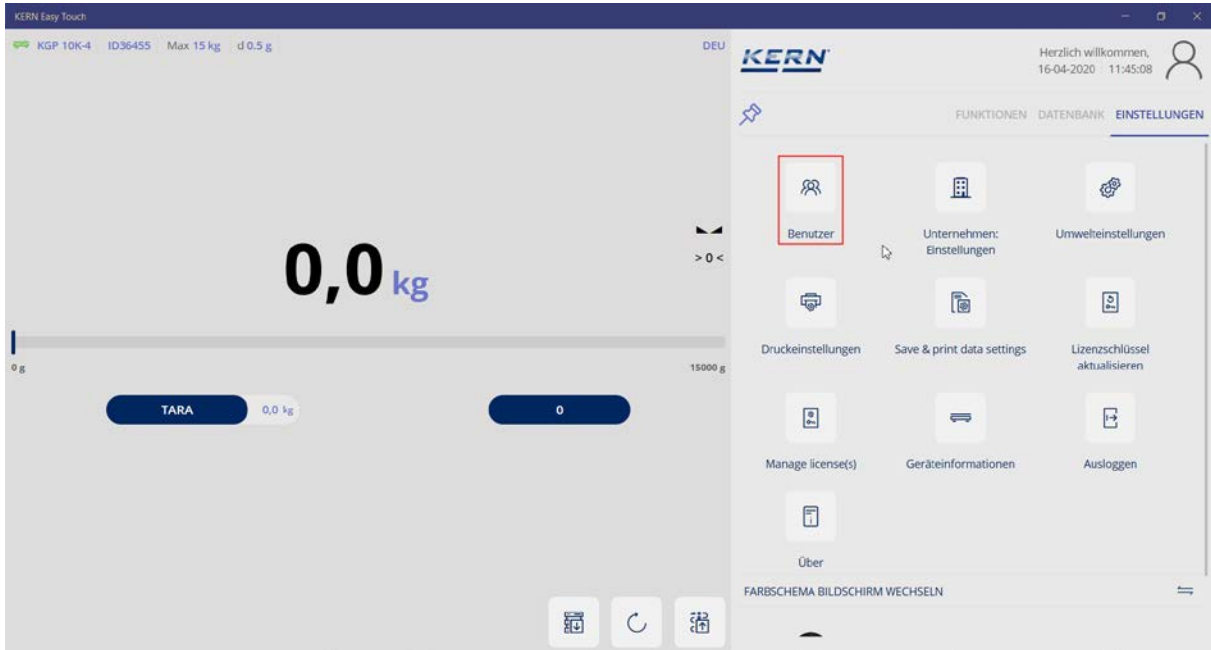
Enter user name and password:

	User name	Password
<b>Standard password</b>	Admin	Admin
<b>Default password</b>	default	default

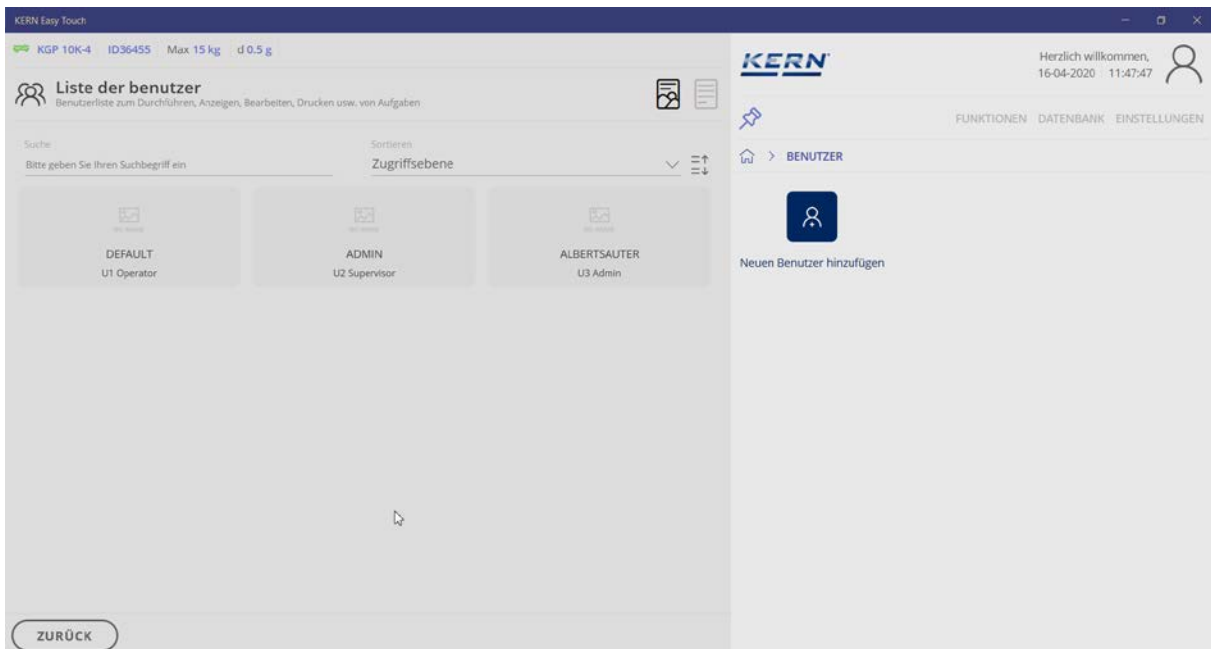
<b>i</b>	<p><b>Please note:</b></p> <ul style="list-style-type: none"> <li>• For reasons of data protection and safety-relevant aspects, the password should be changed after the first login (see chap. „Change password“)</li> <li>• All data must be saved prior to a new installation, otherwise they could be lost. (see chap. „Backup restore“)</li> </ul>
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### 3.3.1 Change password

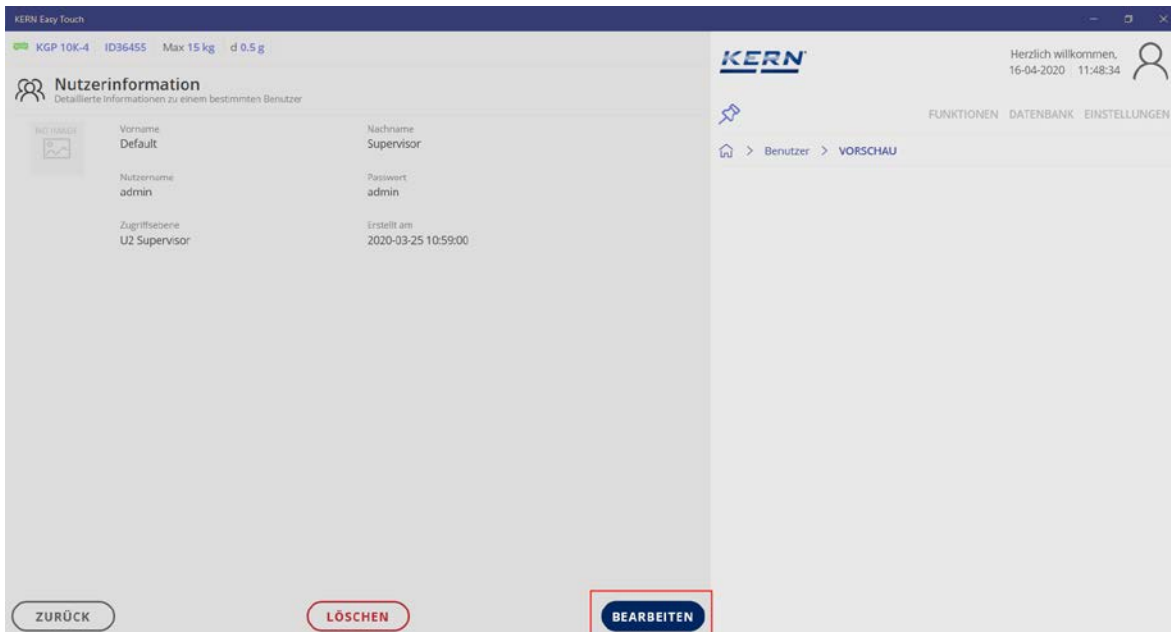
In the home screen in the master menu click SETTINGS – and then in the submenu click „User“



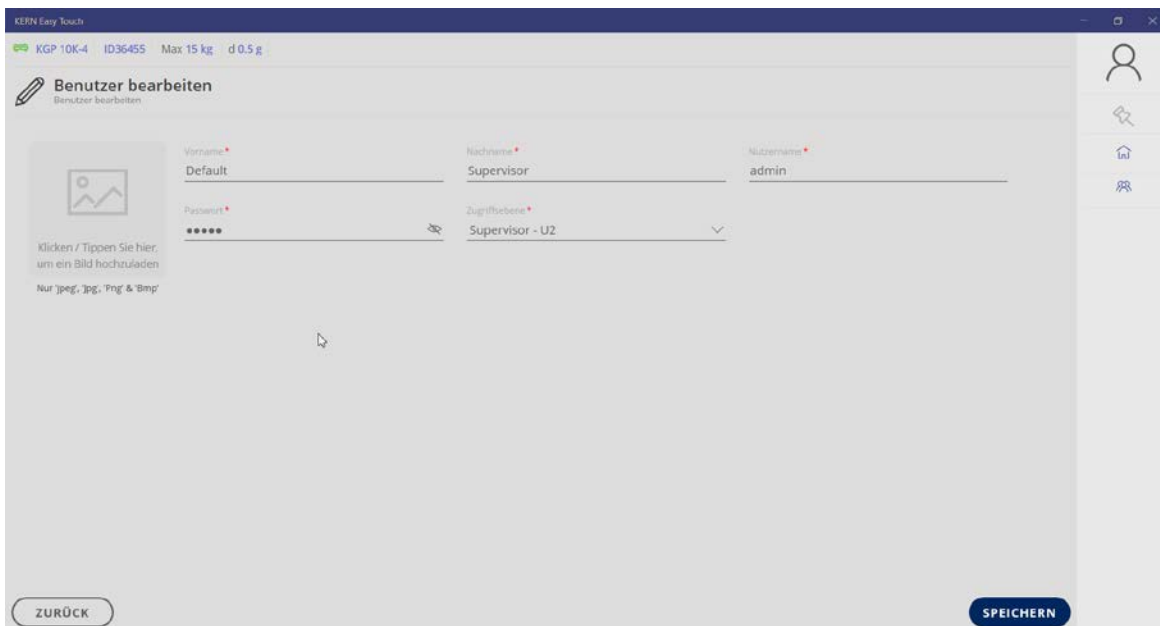
Click the password to be changed



In this screen below right click PROCESSING.



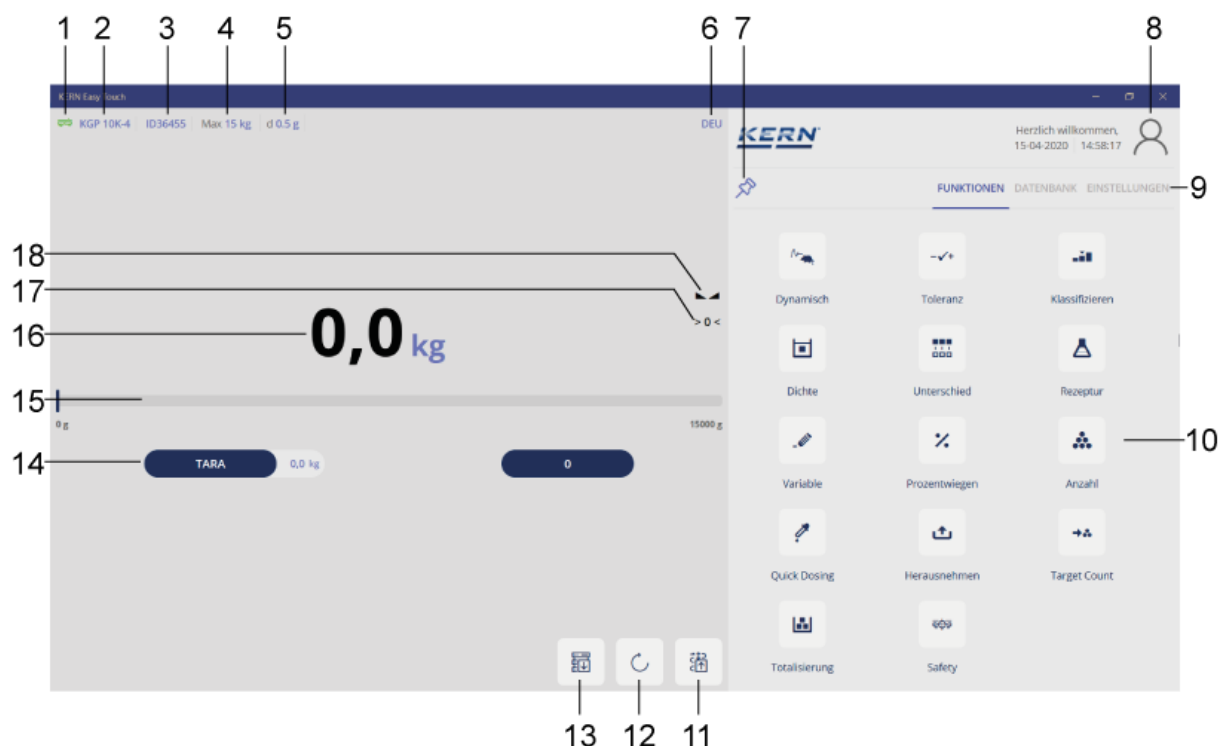
Change the password and take over the new one with SAVE





Now your new password has been created.

<b>i</b>	<ul style="list-style-type: none"><li>• In „User name“ no blanks may be used</li><li>• The password cannot be restored</li><li>• Please change the original Admin-password as specified in order to avoid any involuntary user actions in the Admin area.</li></ul>
----------	---

## 4 Explanation and overview of the symbols Home screen



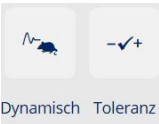









No.	Symbol	Description
1	USB	Device not connected or no connection to device – Connect to the active device by clicking the symbol
	WLAN, LAN	
	Bluetooth	
1	USB	Device correctly connected – the balance is in weighing mode
	WLAN, LAN	
	Bluetooth	
2	KGP 10K-4	Connected balance by clicking the symbol – device settings
3	ID36455	Internal device number by clicking the symbol – device settings
4	Max 15 kg	Max load on the balance
5	d 0.5	Readability of the balance
		Balance in incorrect status (Safety function)
6	DEU	Set language of the software Click to change the language

7		Button to fold-in or unfold the main and submenu – Big-screen function
8		Logged-in user
9	FUNKTIONEN DATEI	Master menu




## Continued Symbols Home screen:



No.	Symbol	Description
10	 Dynamisch Toleranz	Submenus (Ex. Master menu FUNCTIONS)
11		Result screen & Save & Print: Shows the measured data
12		Reset Researched values and settings are reset
13		Load master data set from memory and apply
14		Taring with tare value
15		Capacity display
16		Weighing value
17		Balance zero display
		Zeroing in zeroing range
18		Stability display

## 5 Connecting the device

To connect a balance please proceed as follows:

In the home screen click SETTINGS, then click the button  Device information.

After that click the button on the right  „Add new device“


OR

above left click on



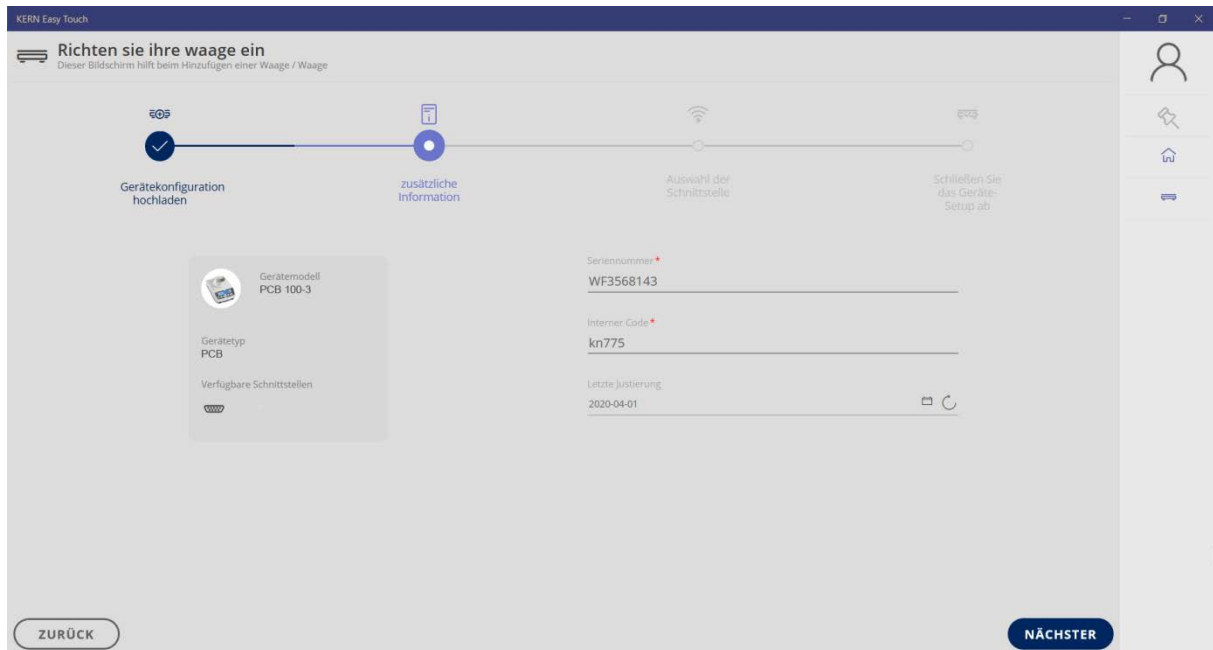
In both possibilities you reach the same screen where the model can be selected:



	<b>Please note:</b> No matter if the balance has the KERN-interface log KCP or not.
---	--

Select the model and click the blue button „Next“.


Now enter the serial number of the selected device, as well as the inventory number („Internal Code“) and the date of the last adjustment of the balance (no obligatory field):



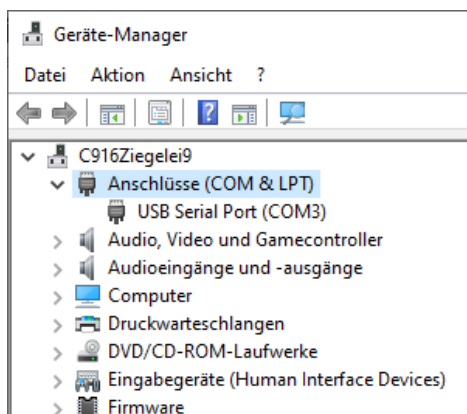
When all fields are filled out, continue with NEXT

The screen for selection of the interface appears

Select the desired interface and enter the respective port

	<p><b>Please note:</b></p> <p>Only one interface may be selected at any one time!</p>
---	---

The corresponding port can be found in the device manager:



## 5.1 Serial / USB:

Just fill out the field „Port Name“.



Clicking on „Continue“, an overview will appear of the parameters which are already preset, but which may also be modified when necessary:



## 5.2 Bluetooth:

Click the field Bluetooth interface and enter the name



When clicking on Advanced, an overview will appear of the parameters which already have been preset, they may be modified:

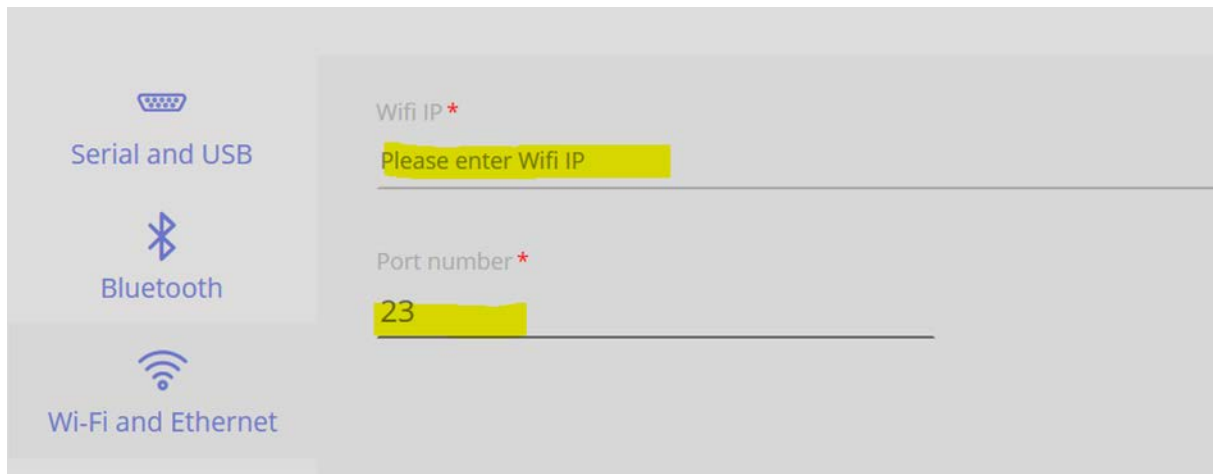


When clicking on the magnifier, Bluetooth-devices in the surroundings will be searched:



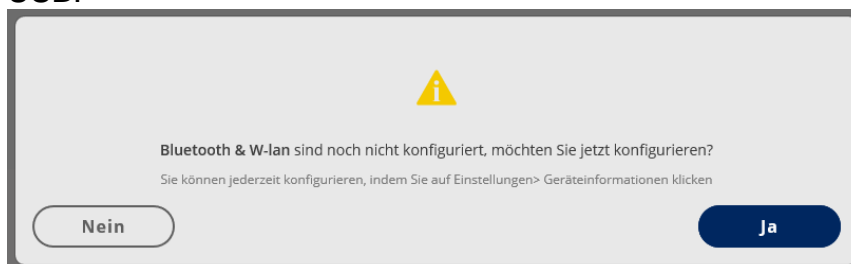
### 5.3 WiFi / Ethernet:

Please enter or take over these specifications:



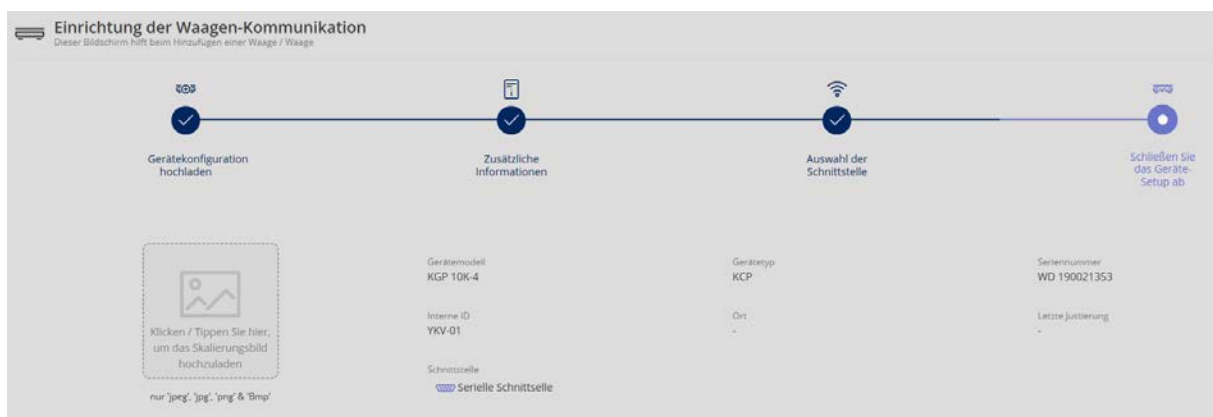
When these fields are filled out, go ahead with CONTINUE:

This screen will appear if configuration took place on the serial interface or at the USB:

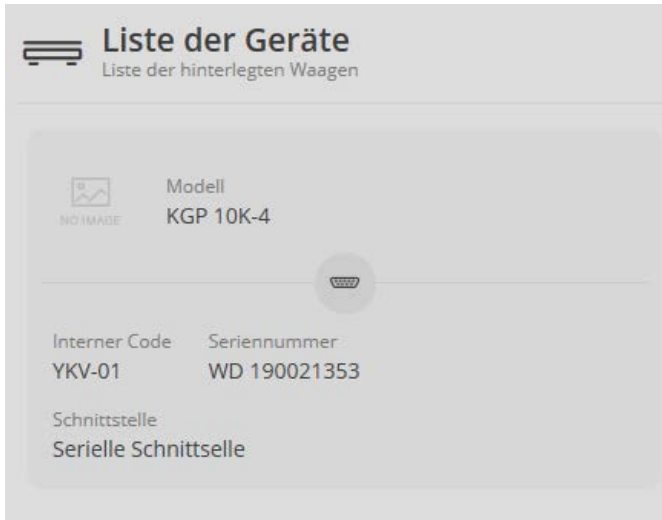


If it has to be configured, continue with YES, otherwise with NO.

In the next screen an overview of the set data will appear. For correction, push button BACK, in order to finish the configuration, click button READY. There also exists the possibility to store an image of the connected device.

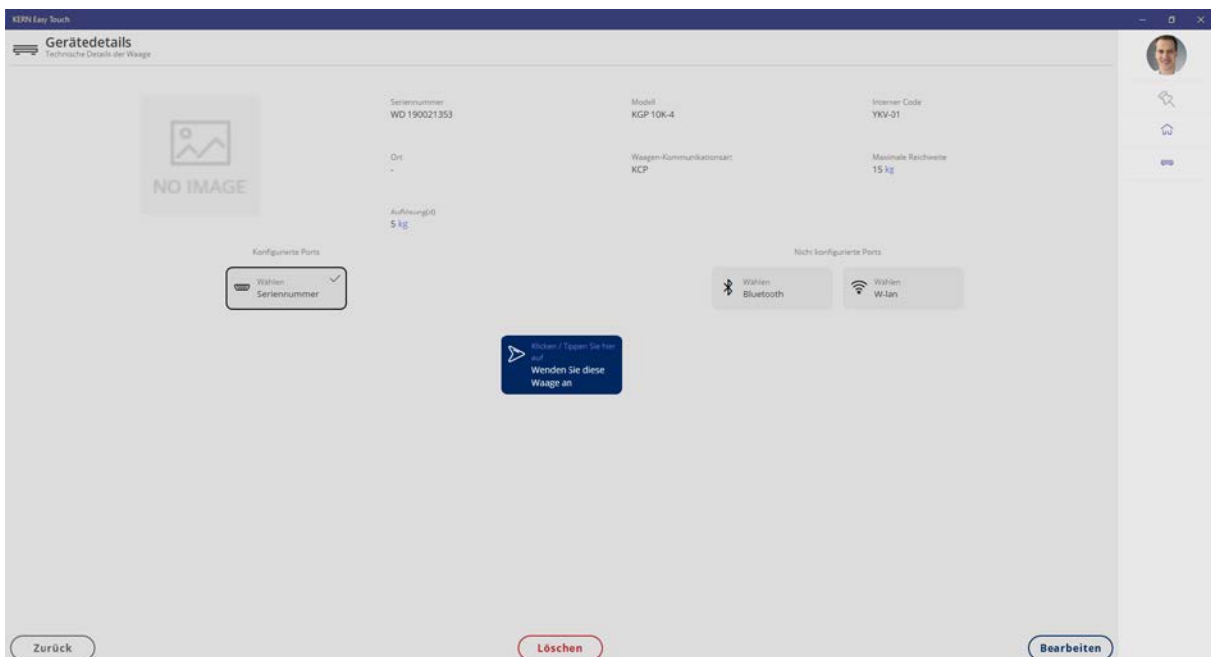


An overview of the data of the connected device will appear. Now the device is correctly connected:



If several devices have been connected, in this device overview you can select the device which you want to use for the measurement.

<b>i</b>	<p><b>Please note:</b></p> <p>Several devices can be connected, but only one device can be enabled i.e. used.</p>
----------	---



Click the blue button, the „Home screen“ appears, the device is correctly connected and is now automatically in standard-weighing mode. (overview Home screen see chap. 6)

The balance to be used can be changed at any moment.

## 5.4 Error message „Device not connected“

If in the upper left corner of the Home screen this message appears,



please proceed as follows:

either



- Click the text [\(Klicken Sie hier, um eine Verbindung herzustellen\)](#)
- The overview of the devices will appear, (the small green dot informs which device is connected and activated)



or:

Enabling the device, see chap. "Device information"

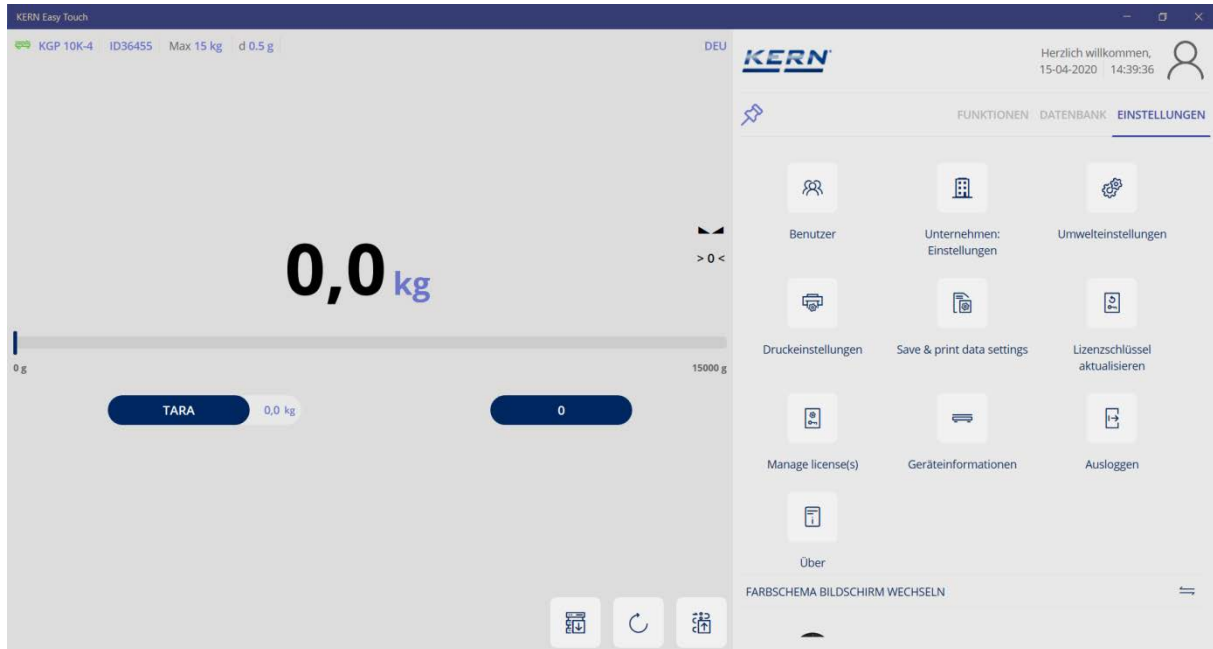
or:

- Click the symbol , the devices are synchronised, after a short time the symbol  will appear which indicates that the connection has been re-established.

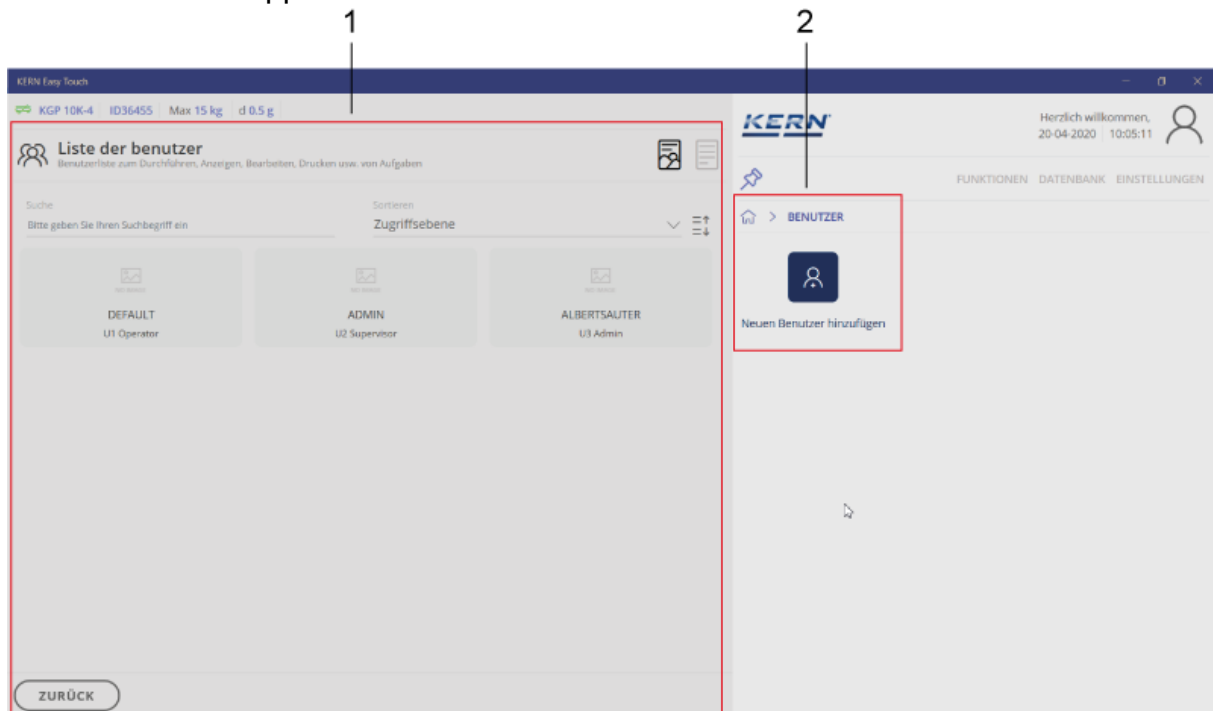


## 6 Edit or create a new user

In the home screen in the master menu click SETTINGS – and then in the submenu click „User“



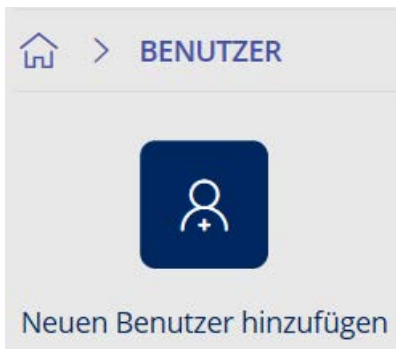
The user screen appears



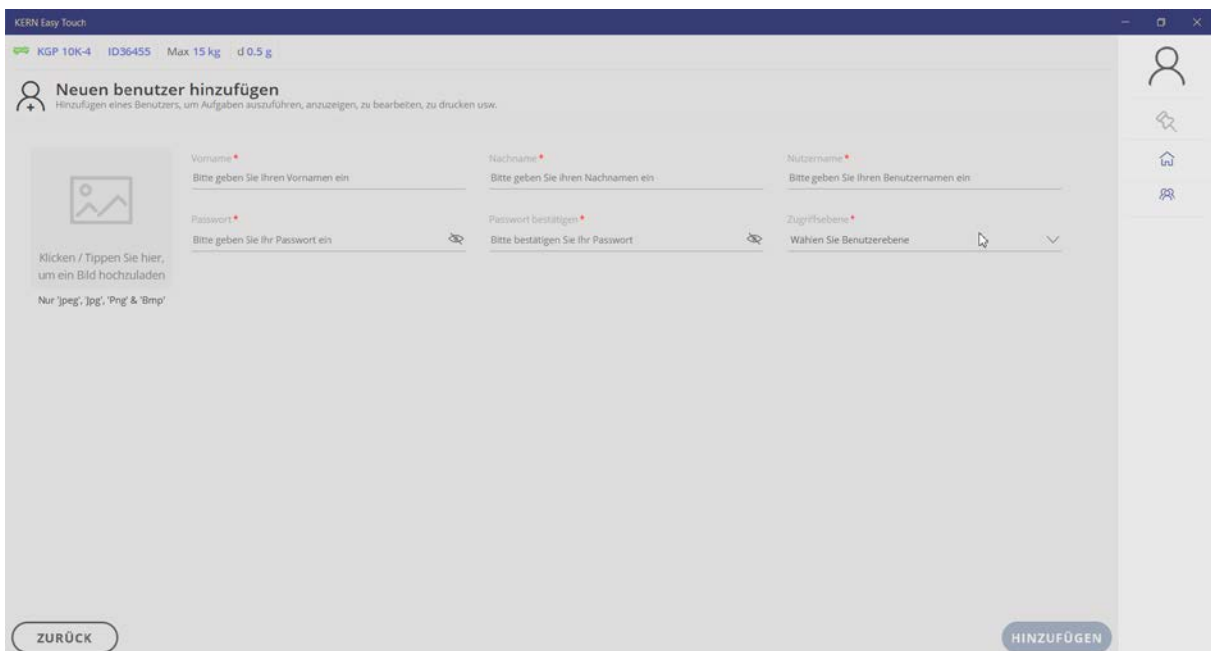
1	Overview of the already created users
2	Button for creating a new user

## 6.1 Create new user

In the user screen click the blue button:



The user screen for entering user data appears

A screenshot of a software window titled 'KERN Easy Touch'. The window displays a form for adding a new user. At the top, there is a status bar with 'KGP 10K-4', 'ID36455', 'Max 15 kg', and 'd 0.5 g'. The main heading is 'Neuen benutzer hinzufügen' with a sub-heading 'Hinzufügen eines Benutzers, um Aufgaben auszuführen, anzuzeigen, zu bearbeiten, zu drucken usw.'. On the left, there is a profile picture placeholder with the text 'Klicken / Tippen Sie hier, um ein Bild hochzuladen' and 'Nur .jpeg, .jpg, .png & .bmp'. The form contains several input fields: 'Vorname' (First name), 'Nachname' (Last name), 'Nutzername' (Username), 'Passwort' (Password), 'Passwort bestätigen' (Confirm password), and 'Zugriffsebene' (Access level). Each field has a red asterisk indicating it is required. The 'Zugriffsebene' field is a dropdown menu. At the bottom, there are two buttons: 'ZURÜCK' (Back) on the left and 'HINZUFÜGEN' (Add) on the right. A vertical sidebar on the right side of the window contains icons for user management, home, and other functions.

Fill out all fields according to the user profile.

### 6.1.1 Field: Access level

Enter here the respective authorisations of every user:

Zugriffsebene \*

Wählen Sie Benutzerebene

Operator - U1

Supervisor - U2

Admin - U3

#### 6.1.1.1 Overview user levels

All weighing functions, excepted formulation and perform check:


Access level	Description	
	Authorisation for	No authorisation for
Operator – U1	<ul style="list-style-type: none"> <li>• Store and print out weighing data</li> <li>• Read master data</li> </ul>	<ul style="list-style-type: none"> <li>• Create master data*</li> <li>• Process master data</li> <li>• Delete master data</li> </ul>
Supervisor – U2	<ul style="list-style-type: none"> <li>• Store and print out weighing data</li> <li>• Create master data</li> <li>• Process master data</li> <li>• Delete master data</li> </ul>	
Admin – U3	<ul style="list-style-type: none"> <li>• Store and print out weighing data</li> <li>• Create master data</li> <li>• Process master data</li> <li>• Delete master data</li> </ul>	

\*Master data:

User data, object data, settings, etc.

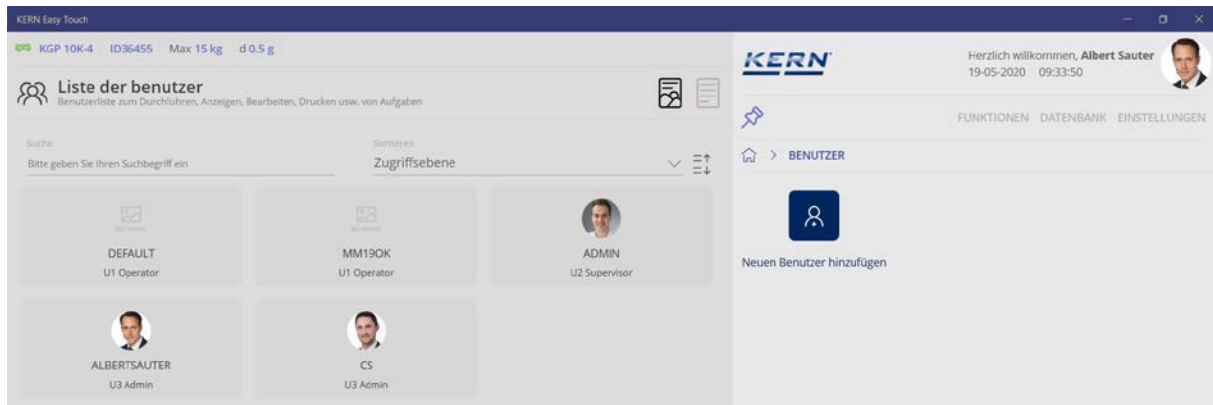
### 6.1.2 Field: Uploading an image

There exists the possibility to assign an individual image to every user.

	<p><b>Please note:</b> Only the following file formats are possible: <b>jpeg, jpg, png, bmp</b></p>
---	---

<p><b>Click</b></p>  <p>Klicken / Tippen Sie hier, um ein Bild hochzuladen Nur 'jpeg', 'jpg', 'Png' &amp; 'Bmp'</p>	 <p>Bild zuschneiden, damit es in das Feld passt!</p> <p>Die Bildgröße sollte mindestens 180 * 180 Pixel groß sein!</p> <p>SCHLIESSEN ZUSCHNEIDEN</p>	 <p>Bild zuschneiden, damit es in das Feld passt!</p> <p>Die Bildgröße sollte mindestens 180 * 180 Pixel groß sein!</p> <p>SCHLIESSEN ZUSCHNEIDEN</p>
	<p>Determine the size with the sliding controller</p>	<p>Select section using the mouse cross</p>

When everything is adjusted accordingly, determine the image with CUT OUT and assign the image to this user with SAVE.

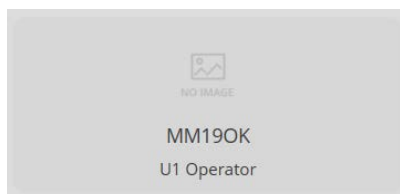


When all data have been entered, finish the input with ADD.  
 Now the new user has been created with his image.  
 He can be processed or completely deleted at any moment by clicking the field

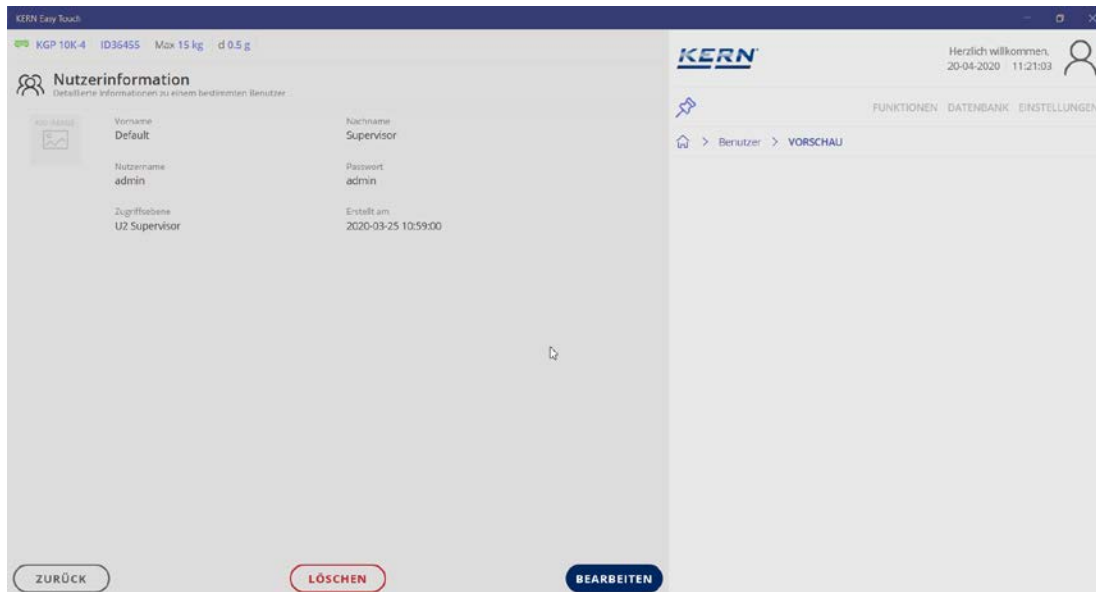
## 6.2 Change the existing user data

<b>i</b>	<p><b>Please note:</b>          Only U2 and U3 users can change user data.</p>
----------	--

In the user screen click the entry of the data to be changed.  
 (here in this example entry U1 Operator)



The user information of this user is displayed  
 Click PROCESSING, in order to carry out the desired modifications



Take over the changes with SAVE, now the entry has been modified.

### 6.3 Delete user


In the user screen click the user to be deleted and delete the entry with DELETE.

	<p><b>Please note:</b> The user account is disabled. All saved weighing data (dynamic memory) of this user remain unchanged.</p>
--	--

## 7 Standard weighing function

### Overview of symbols



**Symbol**   :  
By clicking on the arrows, the display is magnified or reduced.


## 7.1 Standard weighing units

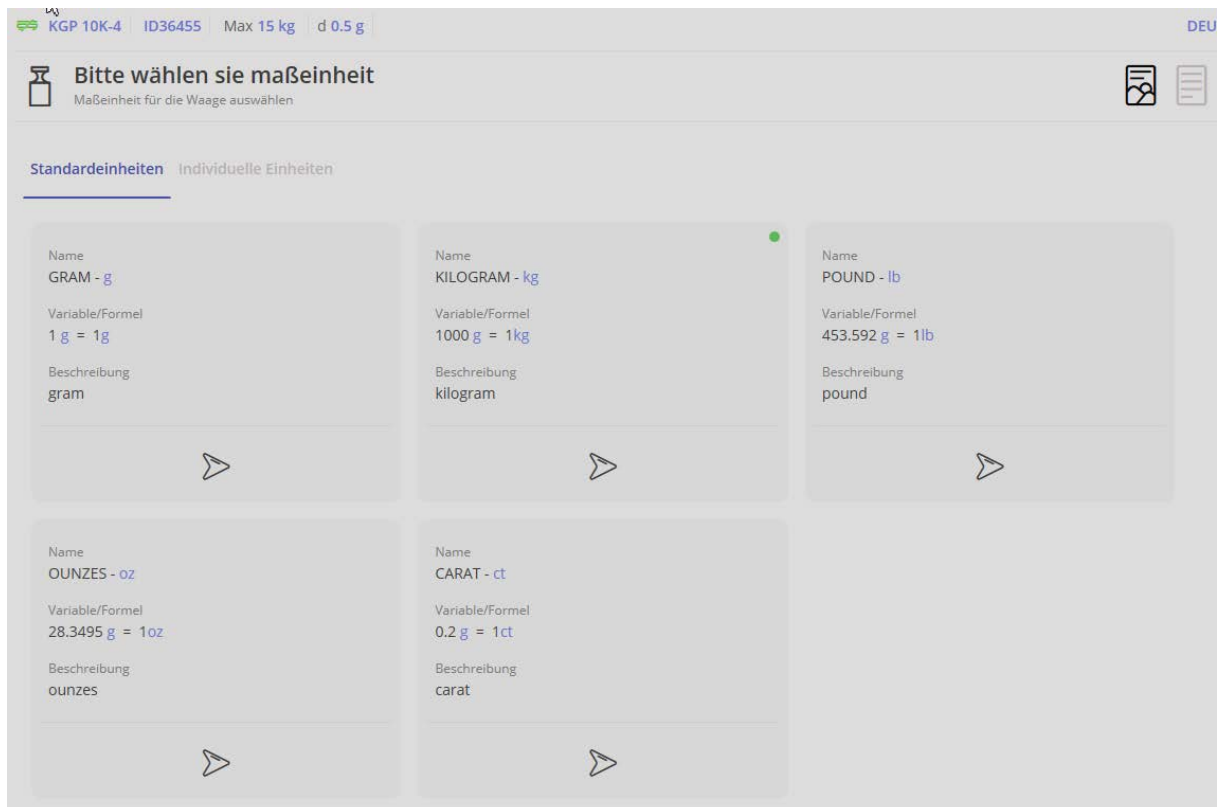
### Weighing unit:

By clicking on the weighing unit you reach to the overview of the standard-weighing units:

The weighing unit with the green dot is the currently set unit.

Here for example „kg“

To change the unit click  of the new unit, the new unit appears in the display.




## 7.2 Individual units

The so-called „individual units“ refer to physical properties which are in linear relation to the weight, e.g. the length of a cable.

In the menu click „Individual units“:



On the right click the button  „Add new individual unit“:



The screen for entering the data of the new unit appears. Enter the name of the new unit, may be adding a short description.

Then enter the unit, which has to correspond either to 1 g or to 1 kg:




Here is an example: 1 kg = 100 cm

In the line below the cable length is displayed yet according to 1000 g.

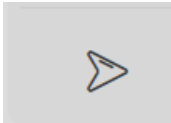
After that click the blue button CREATE:

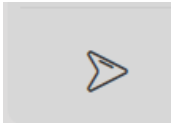
The new unit is now created and will be displayed:

Clicking on:

	you can start the balance with the new unit
	you can edit the data of the new unit
	the new unit is deleted

## 7.2.1 Weighing with the new unit

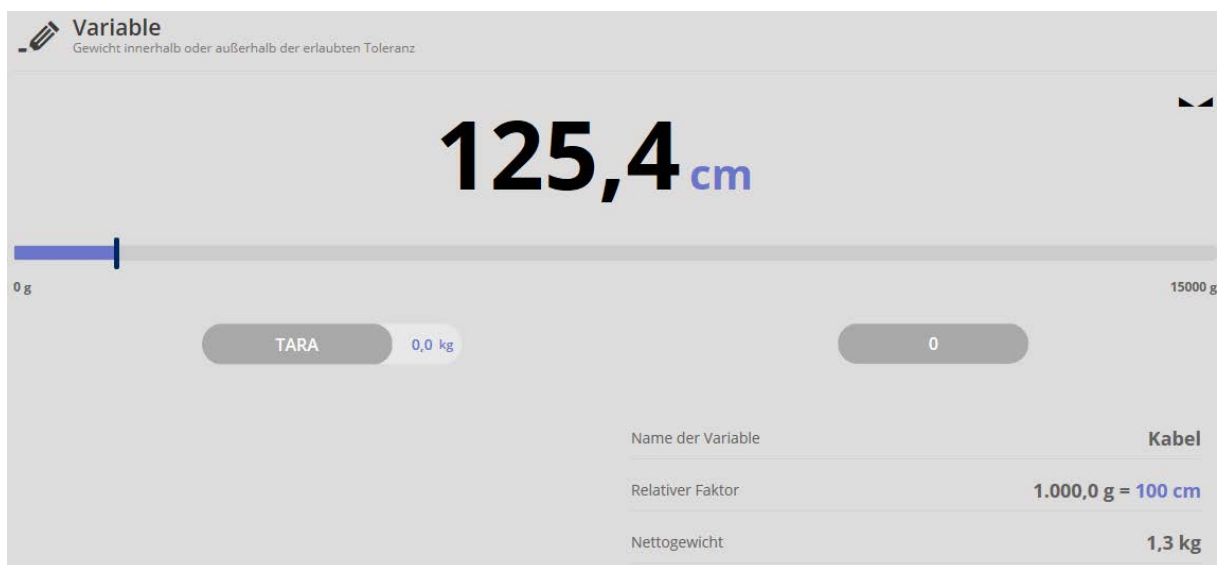


Click  : The weighing mode will appear. The display appears, with the previously defined unit:

Here is an example: cm

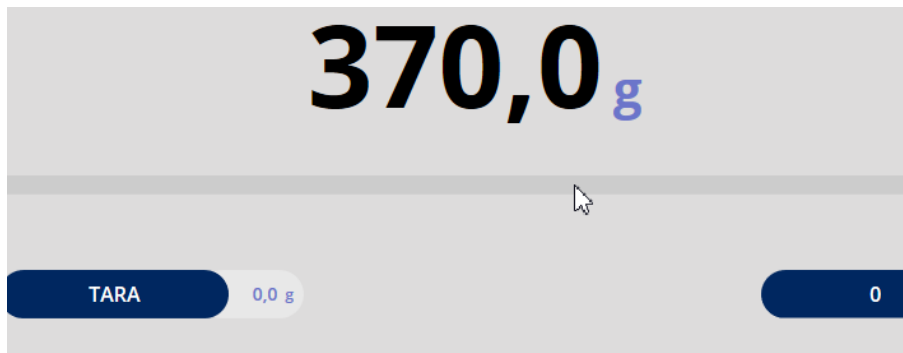
Place the weighing good (in this case, whose length shall be measured) and read the result:

The weighed good is shown in the new unit, in this case the length of 125.4 cm.



## Bar graph:

Clicking on the bar graph



If the display changes to the Quick-Dosing function:



## Tare:

By clicking **TARA** the balance is tared

By clicking **0,0 kg** a pre-tare value can be entered manually:

A screenshot of the manual tare input screen. The title is 'BITTE EINGEBEN LEERGEWICHT MANUELL'. There is a field for 'Manuelles Taragewicht\*' with the value '390' and a unit dropdown menu set to '(g)'. At the bottom, there are three buttons: 'ABBRECHEN', 'LÖSCHEN', and 'SPEICHERN'.

## Saving and printing function:



By clicking the weighing process can be saved and printed out:

The screenshot shows the 'Home - ergebnis' screen of the weighing software. At the top, it displays the device model 'KGP 10K-4', ID 'ID36455', maximum capacity 'Max 15 kg', and readability 'd 0.5 g'. The language is set to 'DEU'. The main content area is divided into several sections:

- Objekt-Identifikation:** Kakao126
- Objektname:** Kakao Südamerika
- Dynamische Objekt-ID:** Kakao126-1
- Name des dynamischen Objekts:** Kakao Südamerika-1
- Nettoergebnis:** 0,0 kg
- Leergewicht:** 0,0 kg
- Bruttogewicht:** 0,0 kg
- Verwendetes Gerät:** KGP 10K-4 (with a device icon)
- Ergebnis generiert durch:** Albert Sauter (with a profile picture icon), auf 2020-05-20 | 14:34:19
- Seriennummer:** WF2054687
- Interner Code:** ID36455
- Letzte Justierung:** 2020-03-10
- Temperatur:** 21 °C
- Fa. Kern und Sohn GmbH:** Ziegelei 1, 72336, null, null
- Telefon:** -
- E-mail:** -
- Webseite:** -

At the bottom, there is a button labeled 'Wählen für Objekt als Stammdatum speichern' and two icons for saving and printing.

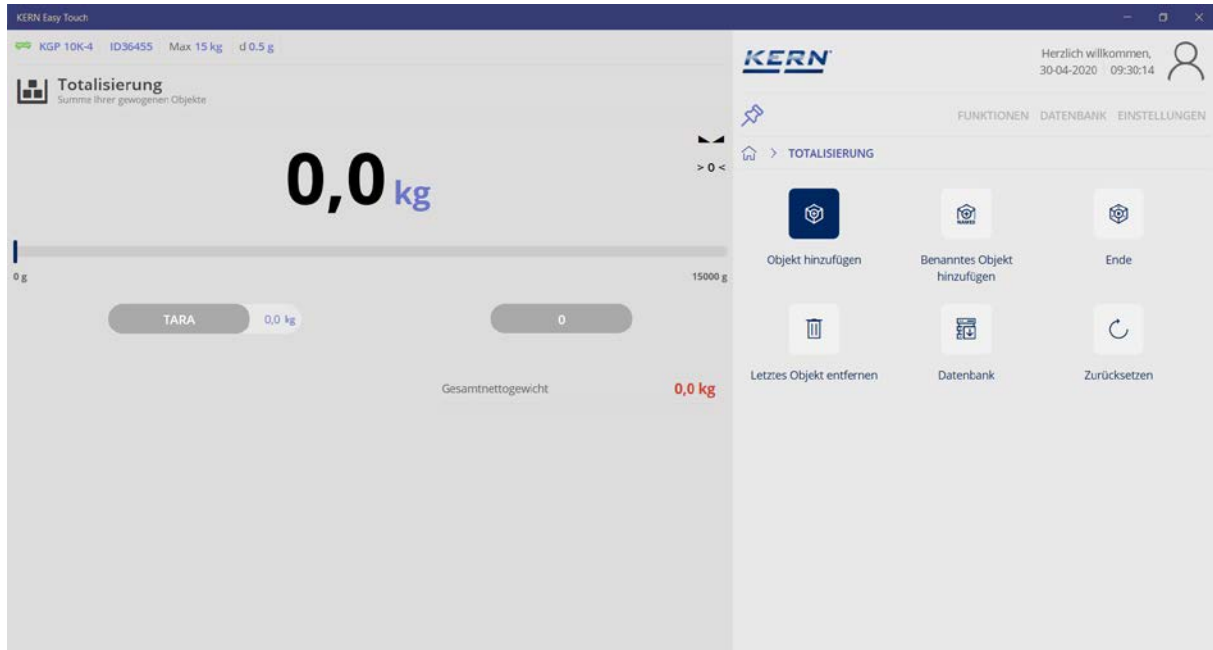
Memory of the weighing result in an ALIBI-memory protected against manipulation (dynamic memory). Once saved, the results in the dynamic memory cannot more be modified.

## 8 Weighing function Totalisation



This function is used if a mixture of several components is weighed into a tare vessel and finally the sum weight of all weighed components is necessary for control purposes (excluded the weight of the tare vessel).

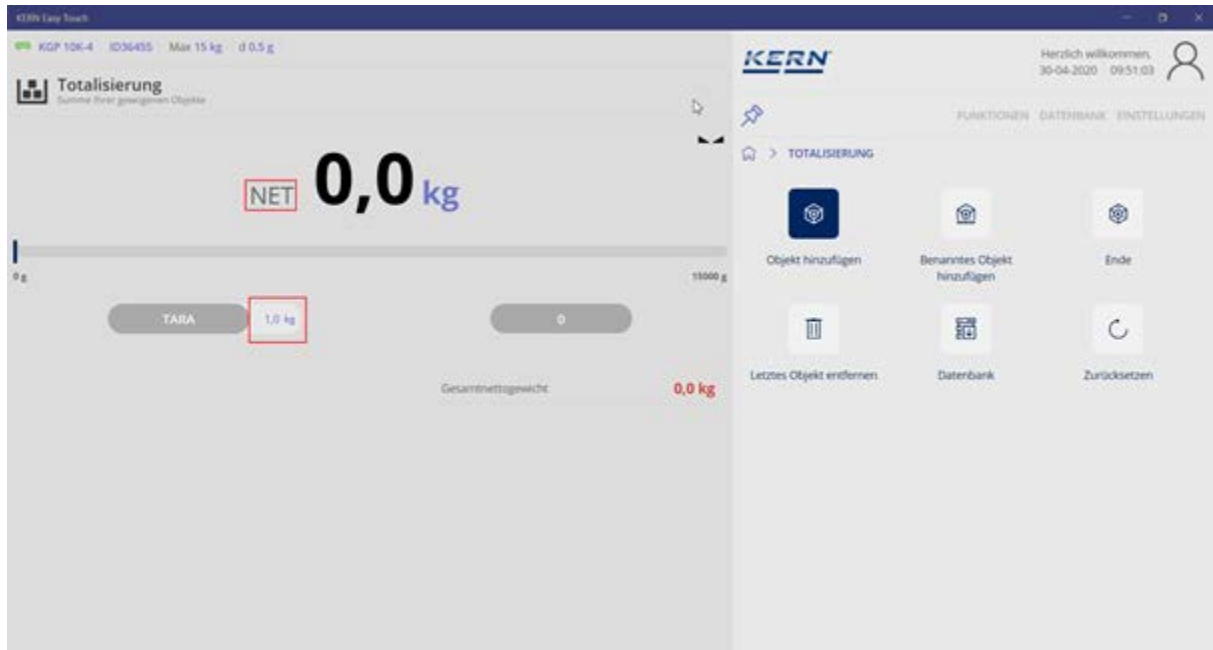
In the Home screen click FUNCTIONS – TOTALISATION.  
The start screen for this function appears:



## 8.1 Totalising

When using a tare container:

Place the tare container and tare away with the TARE button:



- The zero display appears
- The net weight is displayed – Symbol NET
- The tare weight is displayed

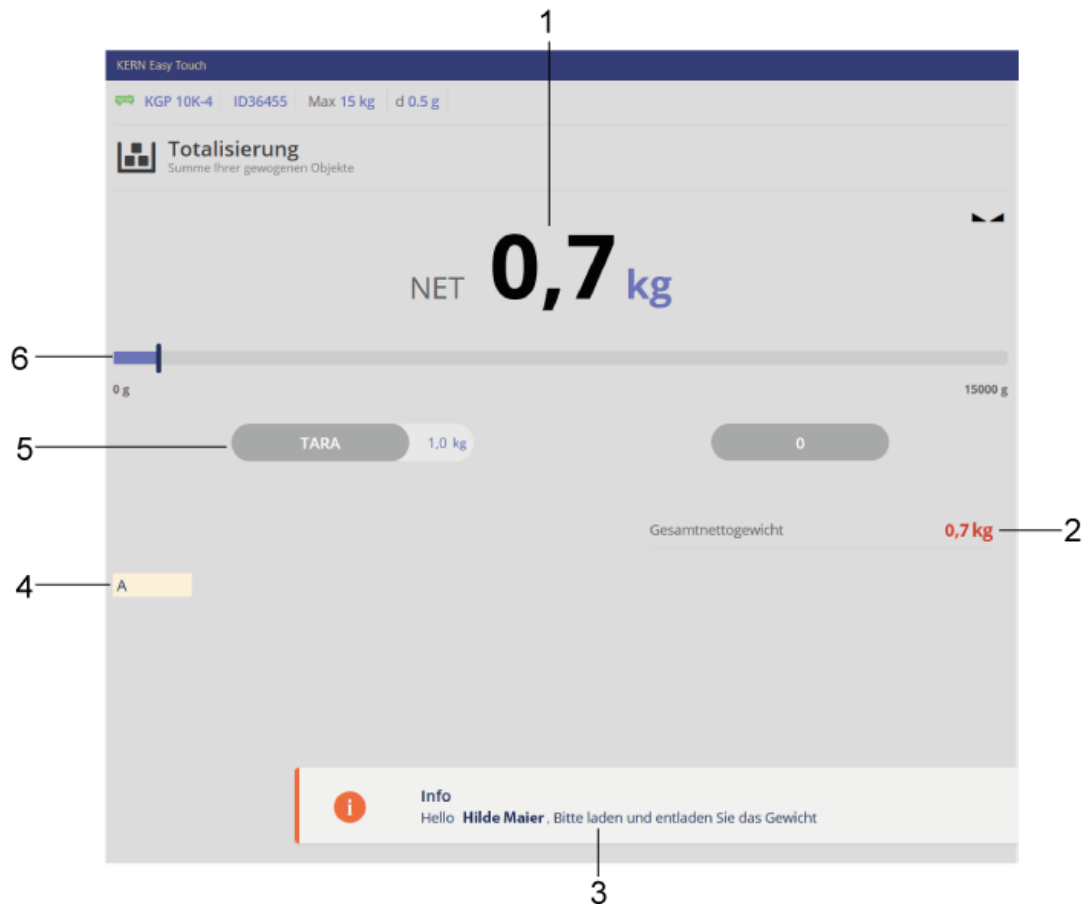
### Delete tare value:

Unload the weighing plate completely, the tare value is displayed as a negative value. Press the TARE button, the zero display appears, press the TARE button again, the tare value also changes to 0.0.

Place the first component on the weighing plate, wait for the stability display and in the submenu click the button „Add object“:



In the next screen several details are displayed:



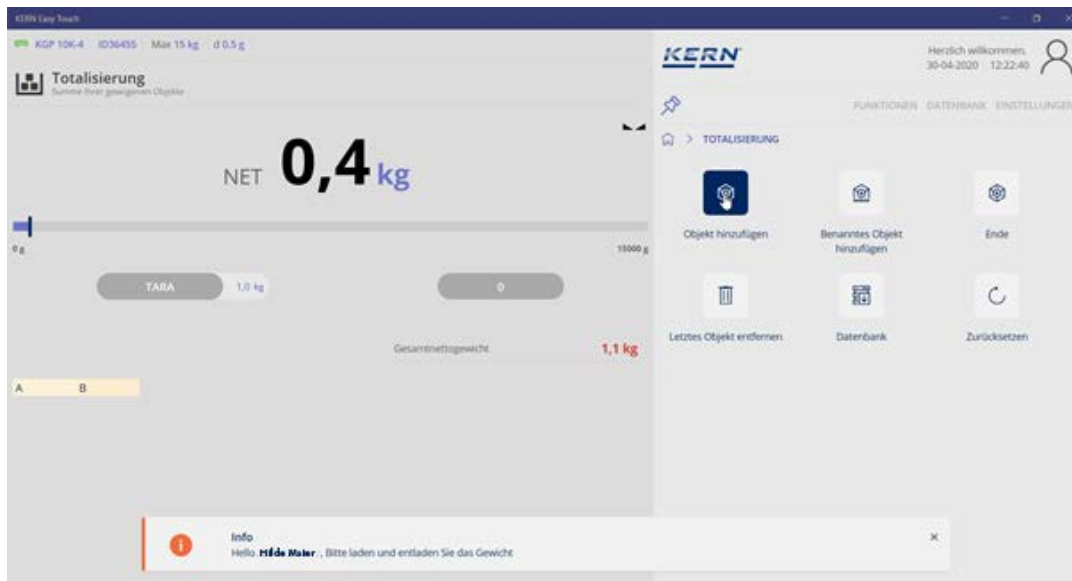
No.	Description
1	Weight of first component
2	Total net weight weighed up to now
3	Information of activity about: Description of the next step
4	Symbol for the first component
5	Tare button and determined tare weight
6	Weight of the component referring to the max. load of the balance

The net weight of the first component has been determined.


Remove the first component from the weighing plate  
Place the second component on the weighing plate, wait for the stability display and then press again the button „Add object“:



The net weight of the second component has been determined  
The net weight of both components will be displayed as total net weight



Proceed in the same manner for further components

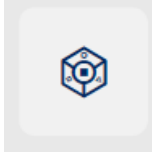
	<p><b>Please note:</b> In order to determine the weight of the single components, please observe this sequence:</p> <ol style="list-style-type: none"> <li>1. Remove the previous component</li> <li>2. Then place the next component on the weighing plate</li> <li>3. Wait for stability display</li> <li>4. Only then click the button „Add object“</li> </ol>
---	---



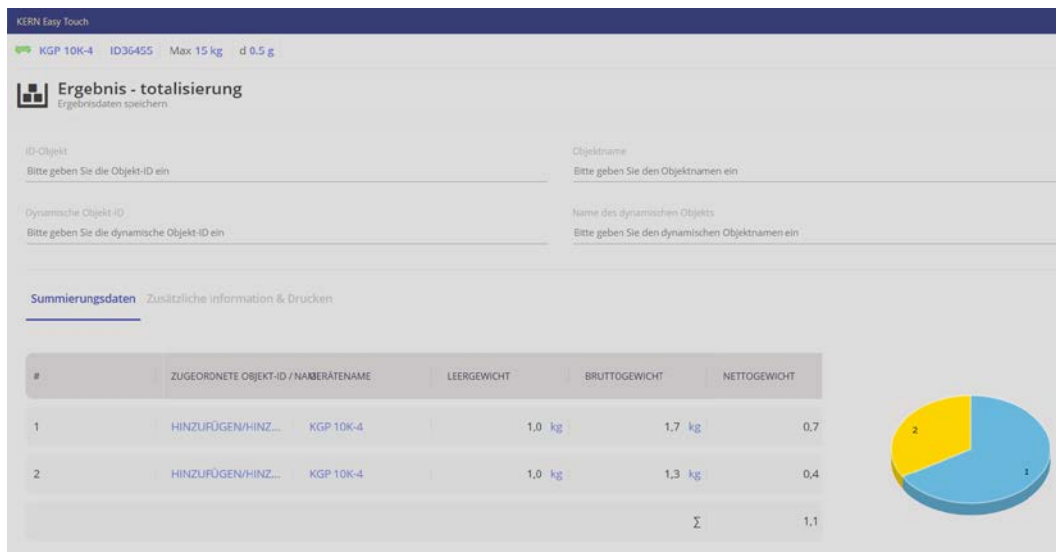


### 8.1.1 Display the result data of the totalisation

When clicking on the button „End“,



an overview of the determined data appears:



They can be provided with ID and name (optional).  
In all fields can be entered letters as well as numbers.

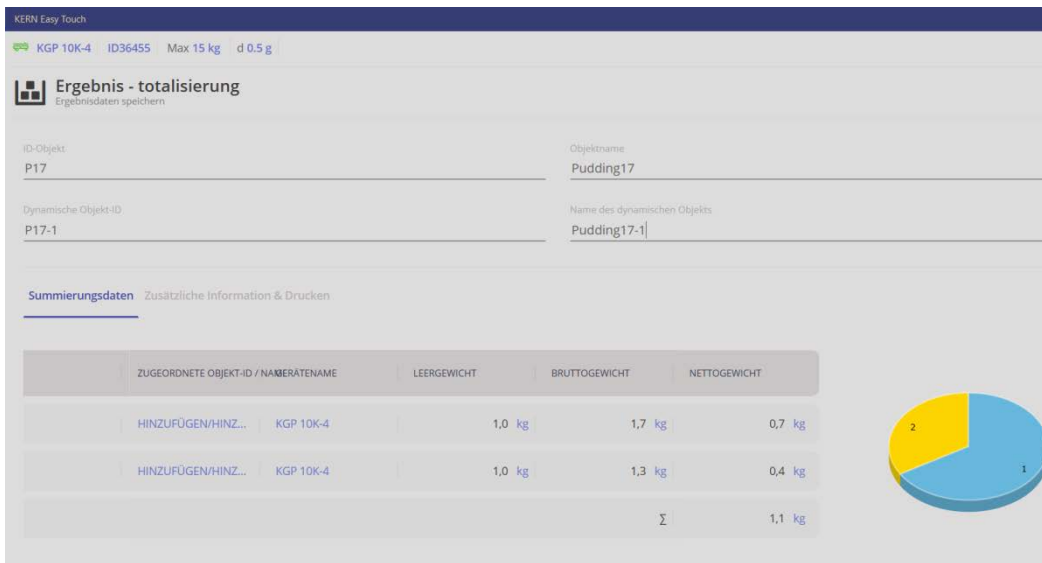
The „dynamic ID“ as well as the „dynamic object name“ refer to the respective totalisation.

## Example:

pudding has been manufactured by two components, milk and pudding powder.

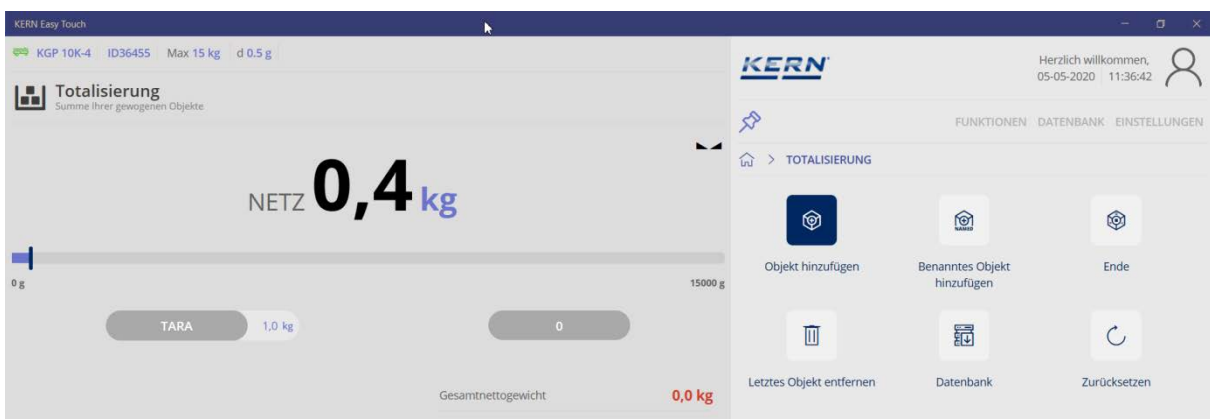
To this process has been assigned the object ID „P17“ and the object name „Pudding17“.

The dynamic object ID „P17-1“ and the dynamic name „Pudding17-1“ indicate that this is the first totalisation.

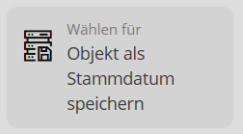




Save the result with .

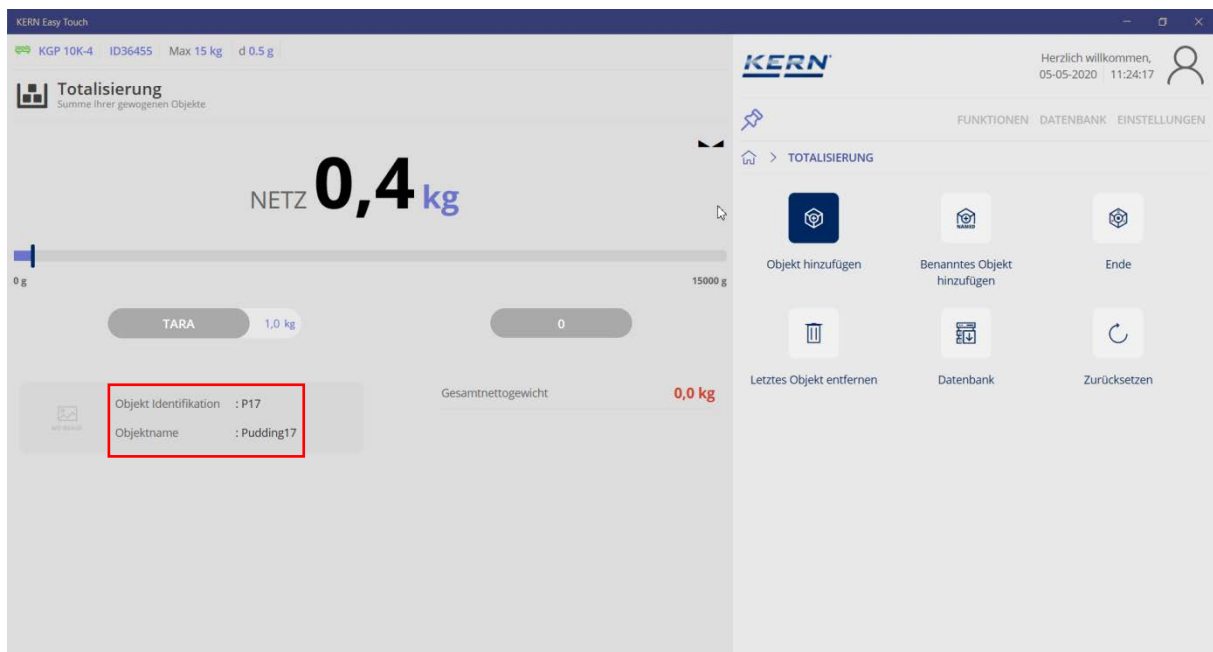
The totalisation is saved, the balance is now in weighing mode.



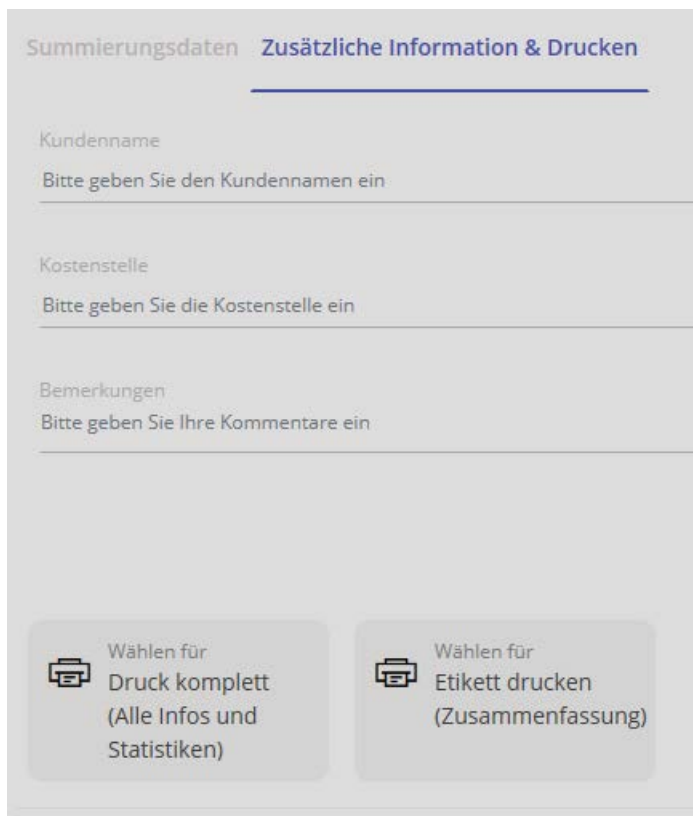
If the result shall be stored in the master database,

press  followed by  .

Object ID and object name of the totalisation are now stored in the database and are displayed in the marked field:






Under the menu item „Additional Information & Printing“ all data („Pressure complete“) or a label print („Compilation“ of all data) can be printed out).

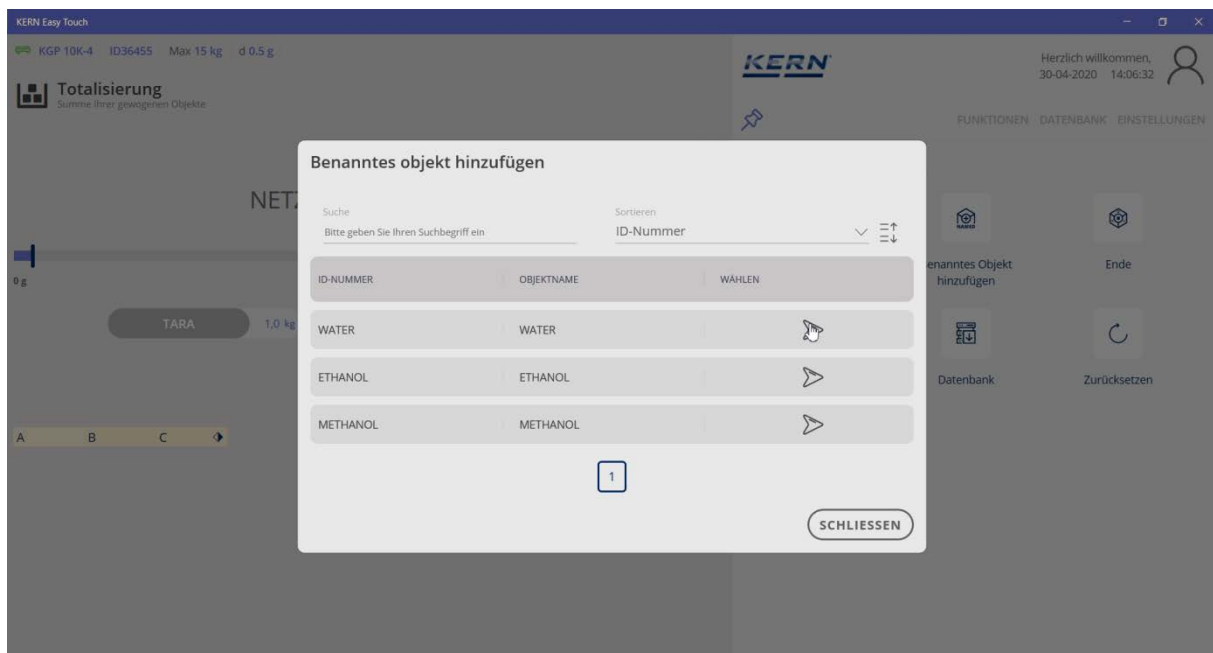



## 8.1.2 Additional useful functions

In the totalisation submenu:


	Components which before have been stored as objects (see chap. 8.1.1), can be added here as components
Add known object	



Click  and in the following screen select the desired object and by clicking on the respective arrow  add the object as a further component to the totalisation process:

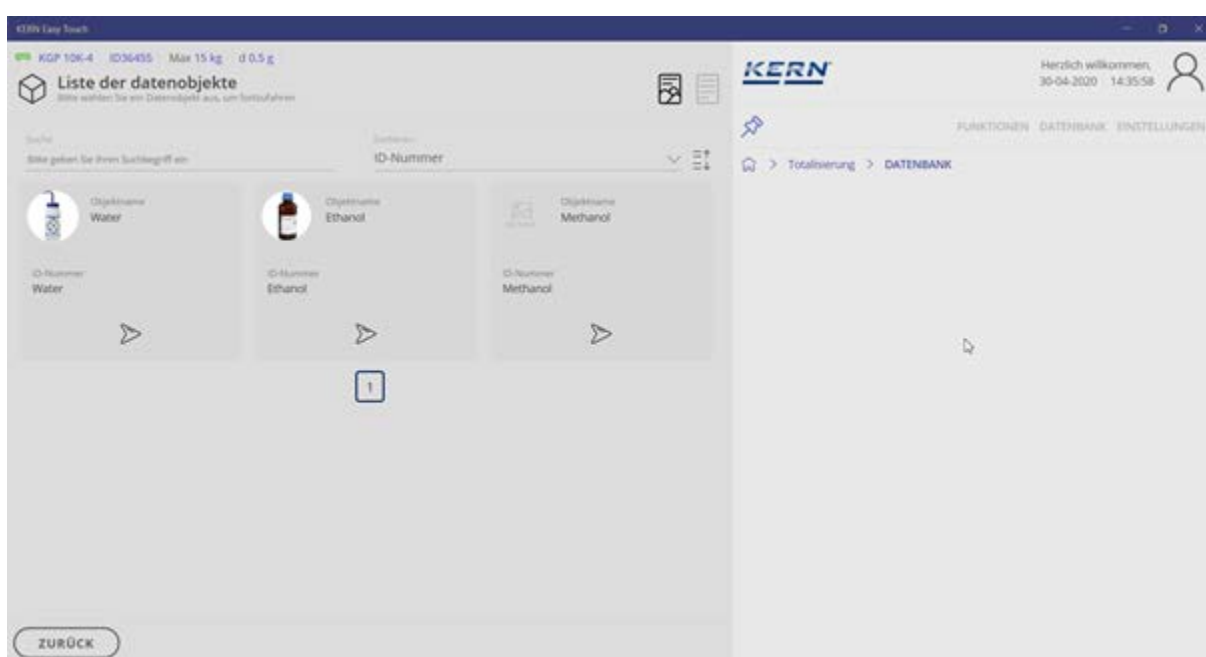



In the following screen the new component is displayed. At mouse-over over the small rhomboid  the name of the object appears



 <p>Remove the last object</p>	<p>In order to delete the weight of the last placed component also from the sum memory, press this button. It is not sufficient to remove the component from the weighing plate.</p>
---	--

 <p>Database</p>	<p>The data from the database can be added here as a component. Select the data record and add it to the totalisation as additional component with .</p>
---	---



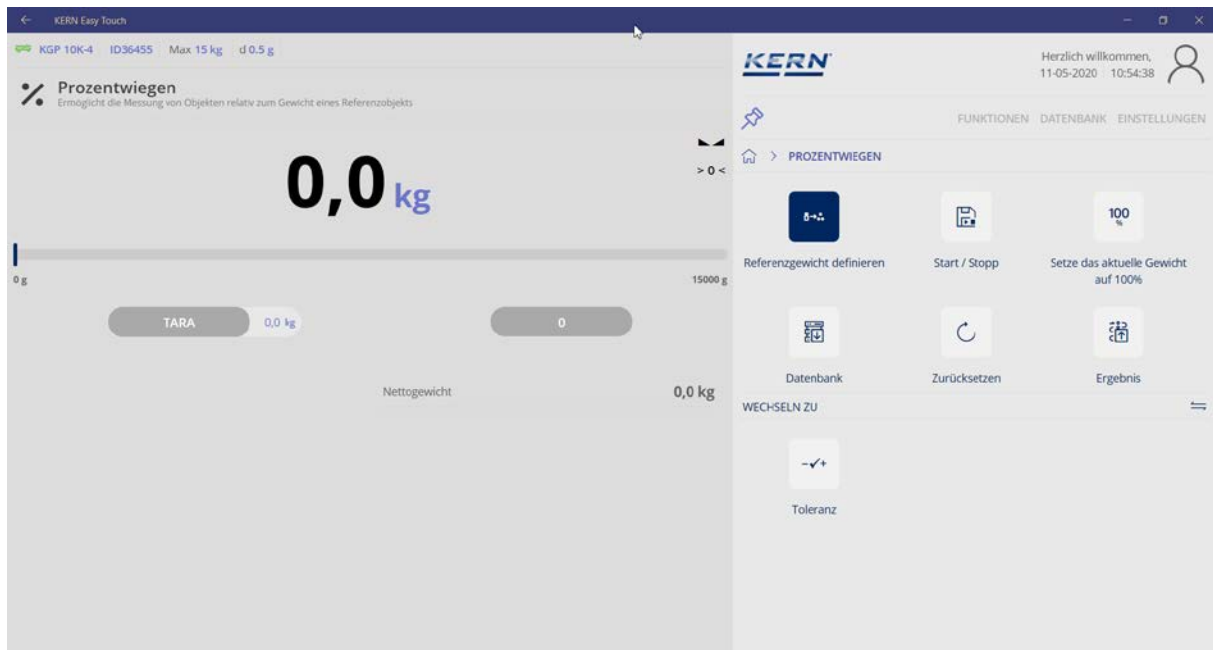
 <p>Reset</p>	<p>With this button the whole process including weighing value, tare value and total net weight is set to zero.</p>
--	---

## 9 Weighing function percent weighing



This function offers the possibility to display the determined weight as percent value, referring to a reference weight which corresponds to 100%.


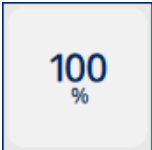
In the Home screen in the master menu click FUNCTIONS – PERCENT WEIGHING:  
The start screen for this function appears:



In order to define the percent value for a sample, first the reference weight which should correspond to 100%, must be determined.

### 9.1 Determining the reference weight:

There are two possibilities to determine the reference weight:  
In the submenu:

	
<p><b>Define reference weight</b></p>	<p><b>Set the current weight to 100%</b></p>
<p>Reference weight which corresponds to 100%, must be entered manually</p>	<p>Reference weight is defined by weighing</p>

### 9.1.1 Enter the reference weight manually:

For this purpose press the button Define reference weight in the submenu:



In the next screen enter the reference weight which should correspond to 100% and select the respective unit (g/kg):  
(in this example 1 kg)

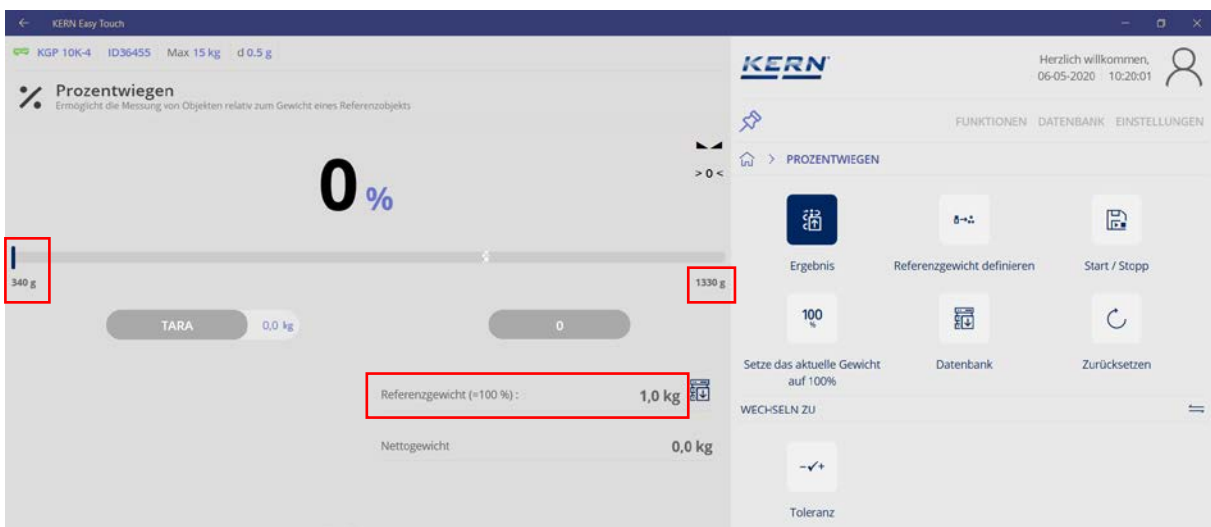
DEFINIEREN REFERENZGEWICHT

Geben Sie das Referenzgewicht ein \*

1

Einheit (kg)

Save the entry with the blue button CONFIRM below right.  
The reference weight is now determined and is displayed:  
1 kg corresponds to 100%

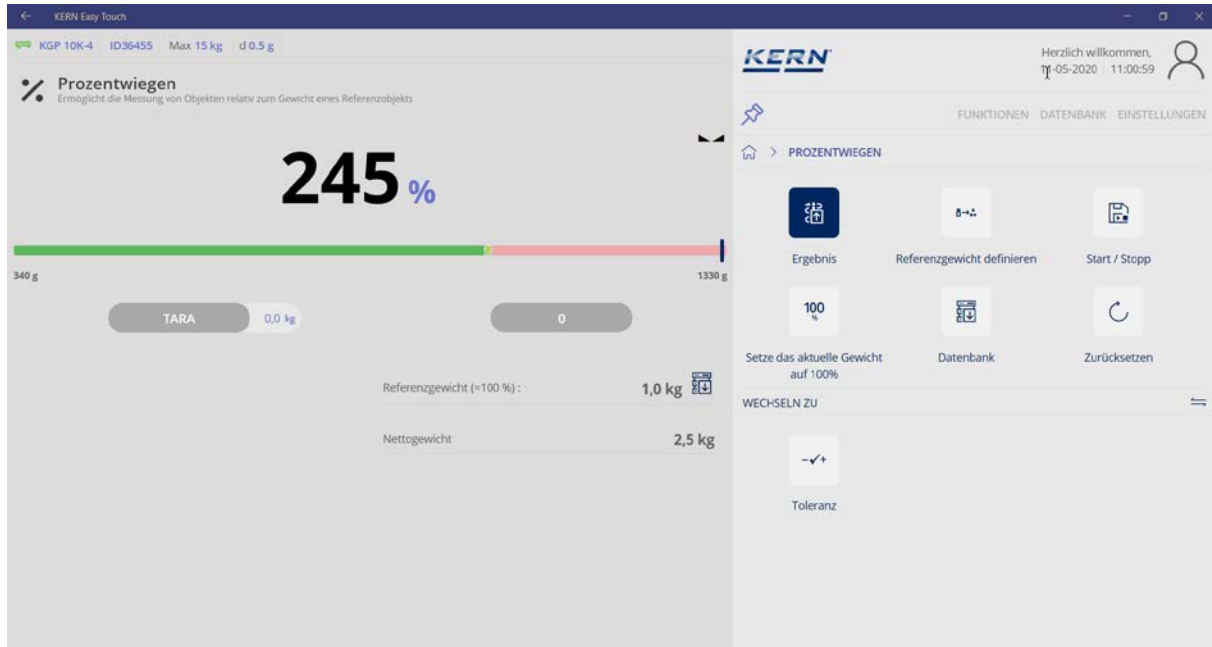


**i** The values on the left and on the right of the capacity display describe the relative area (the relevant section of the bar graph), which is actually used by the balance in this measurement.

## Determine the percent value of a sample:

Put the sample on the weighing plate and read the percent value.

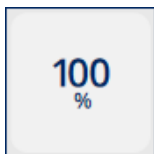
Here is an example:



### 9.1.2 Determine reference weight by weighing:

Unload weighing plate.

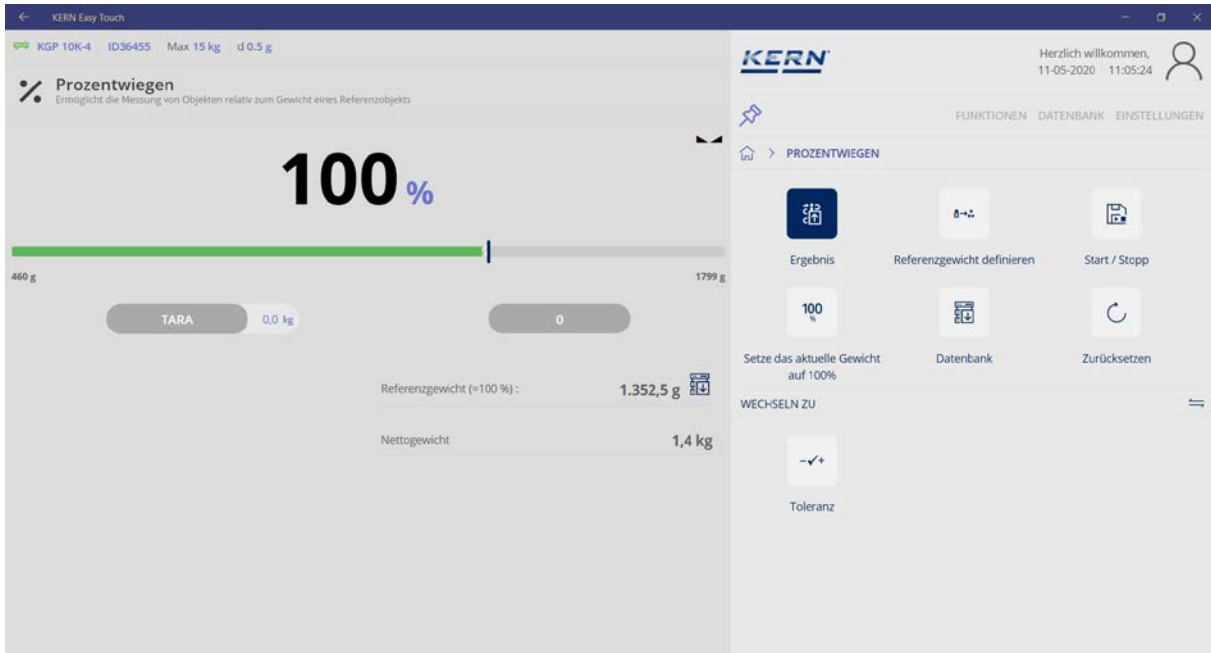
Place the sample whose weight should correspond to 100%, on the weighing plate. Wait for the stability display, after that in the submenu press the button „Setting the current weight to 100%“:



This completes the determination of the reference weight. The following will be displayed:

100% correspond to 1.4 kg

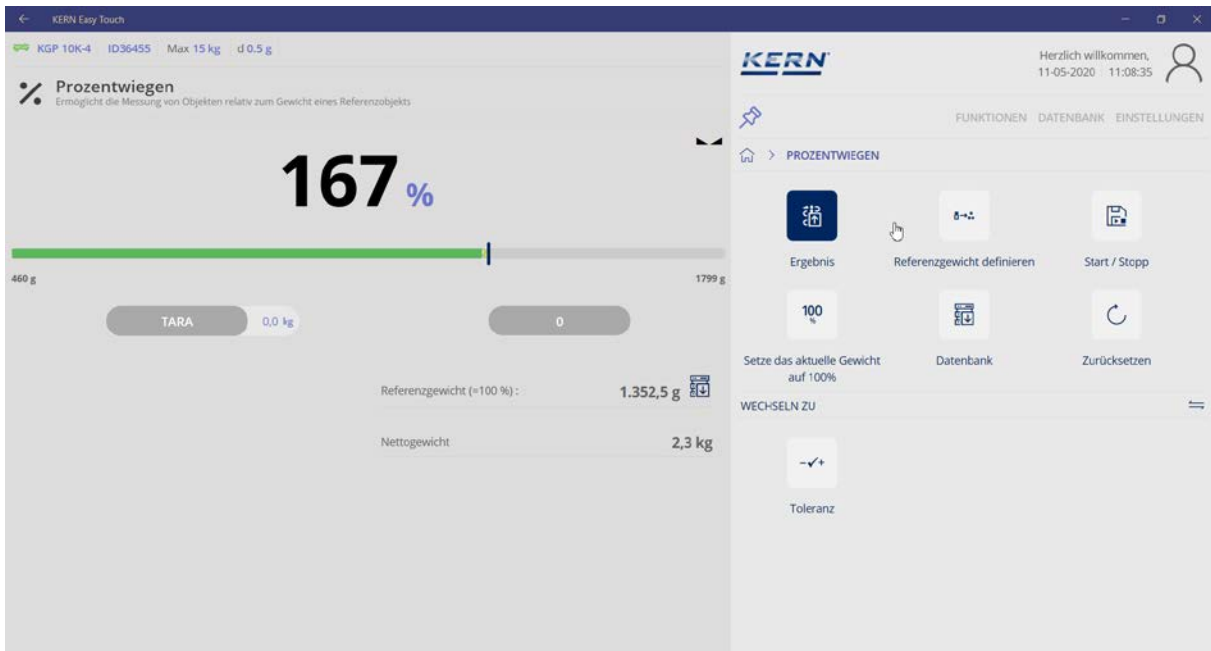




**Determine the percent value of a sample:**

Unload the weighing plate, place the weighed goods, the weight of the item to be weighed is displayed in percent, referring to the reference weight.


**Here is an example:**



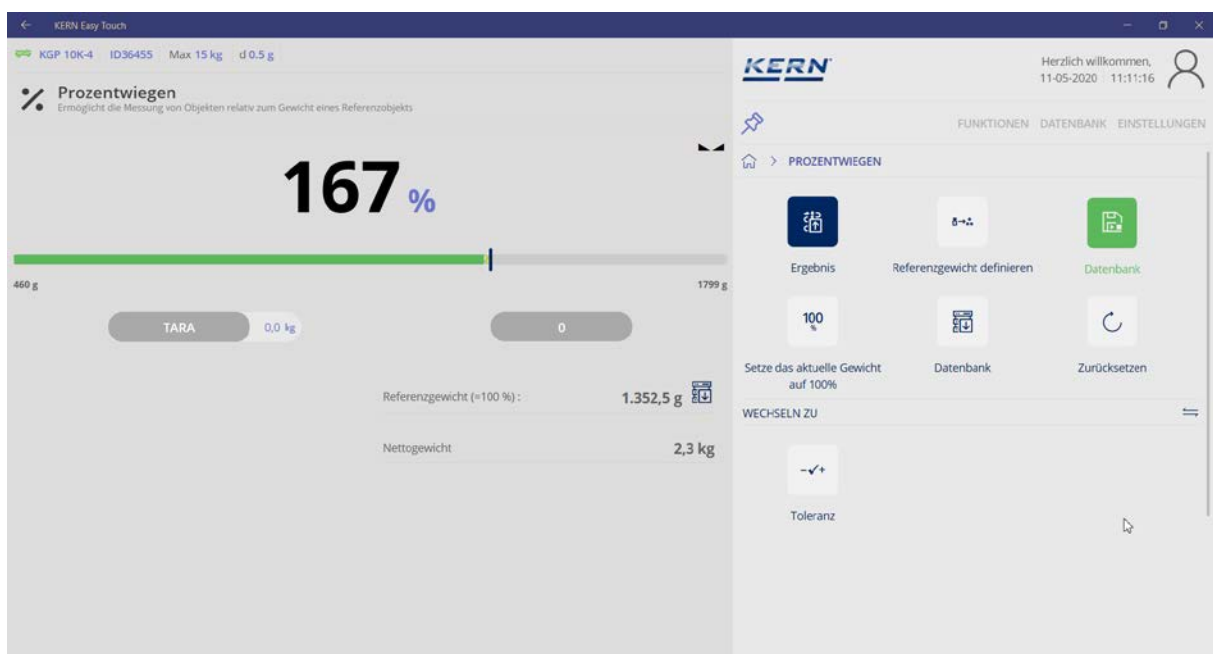
## 9.2 Save the weighing data

### 9.2.1 Save without ID:



By clicking on  start / stop the determined data are saved into the database.

Here is an example:

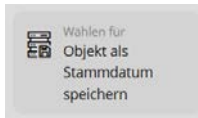


## 9.2.2 Saving with object ID and object name:



By clicking on „Result“ the object IDs and object names can be assigned to the percent calculation, under which the calculation is filed in the database.

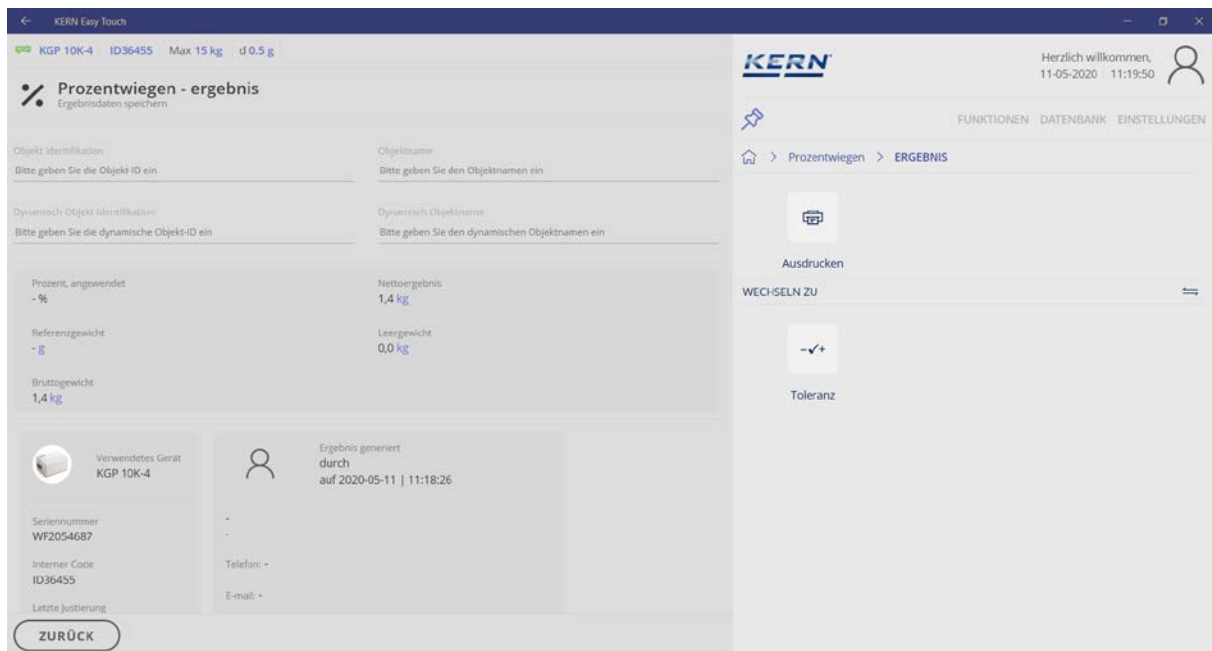
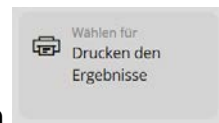
Enter the IDs and store them in the database by

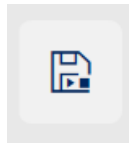


This overview can also be printed out:



Either with the button in the submenu right or with the button below.



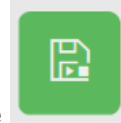


Explanation of Start/Stop button:

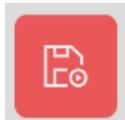


### ID-backup:

It offers the possibility to save every weighed and saved weighing result with a unique ID-number (Dynamic Object ID) and an ID-name (Dynamic Object name).



The storage can be initiated semi-automatically (green mode ) of fully

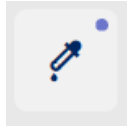


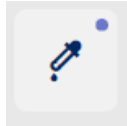
automatically (red mode ) whenever the balance was unloaded and loaded again.

That means that the user for mass storages needs not to actuate any buttons and therefore can work efficiently.


## 10 Weighing function Quick Dosing

**i** For dosing, bigger or smaller quantities of weighing goods are removed or added, in order to reach the desired weight.



Call up function with button , or with a click on the bar graph in the weighing function.



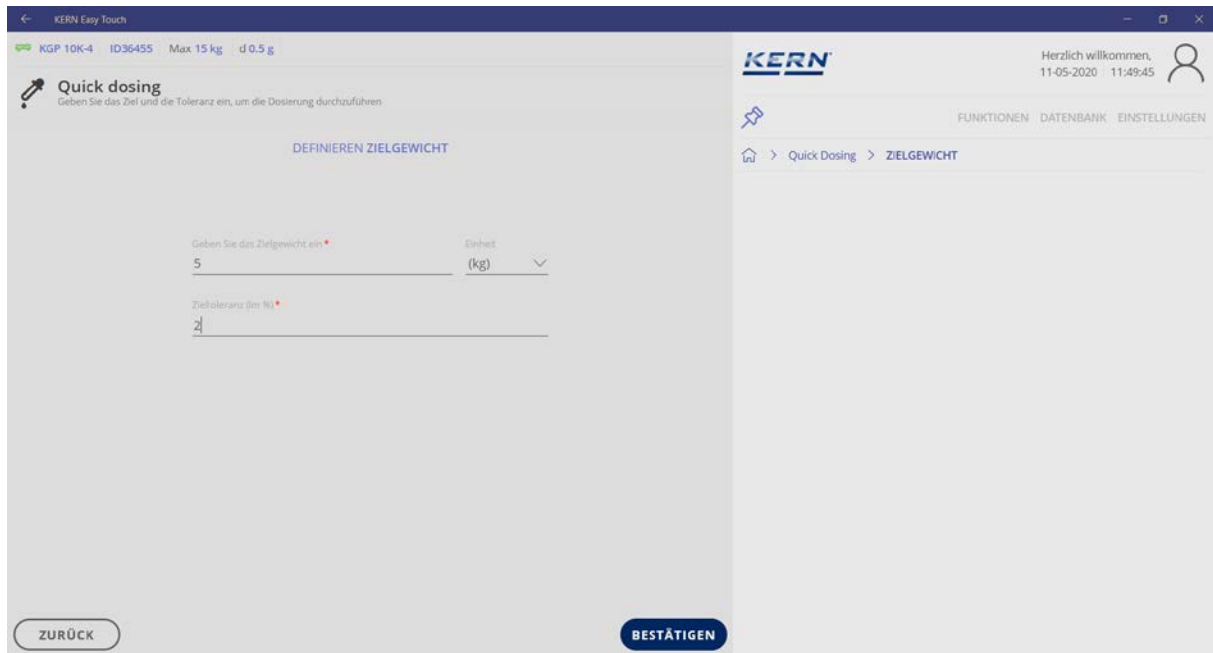
Using button , „Target weight“ define the weight value which has to be achieved. Also the allowed deviation in percents.

**i** **Minimum tolerance size:**  
Tolerances equal or lower than 5d (weighing-readability steps) of the balance are not accepted by the system.  
Reason:  
Normally such small tolerances cannot be exactly weighed.

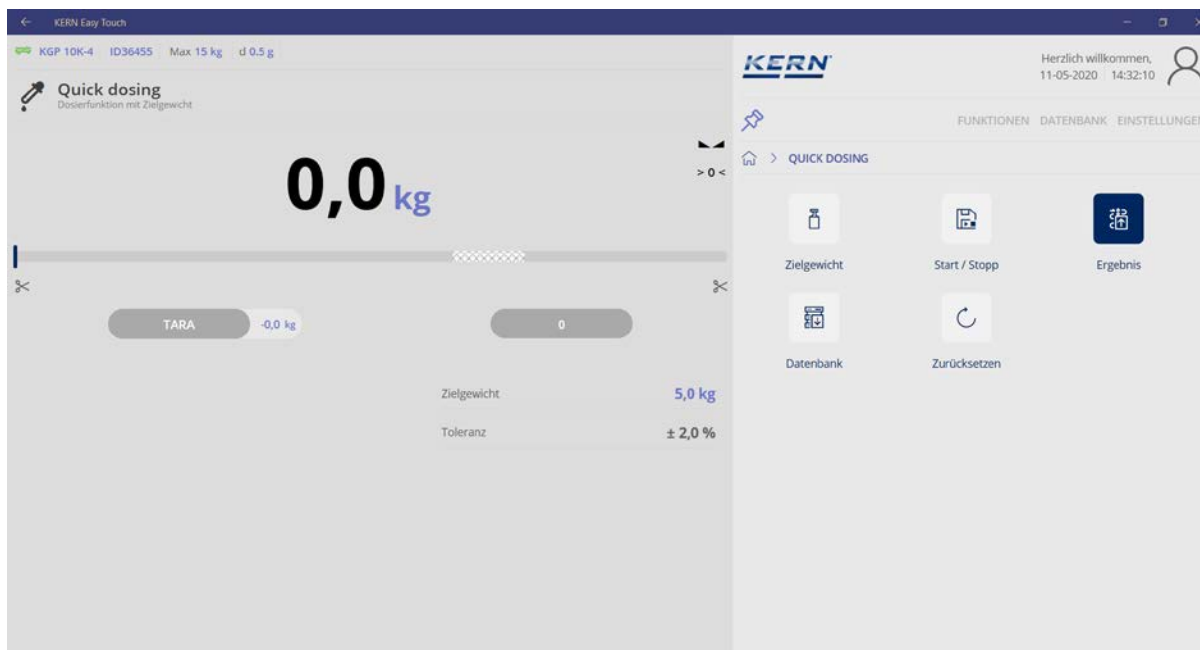
For tolerances equal or lower than 50d the system emits a warning message to the user, which informs him that the required tolerance might be weighed with difficulties.

Geben Sie das Zielgewicht ein *	Einheit
5	(g)
Zieltoleranz (Im %)*	
4	
Toleranzen unter 5 Teilungsschritte sind bei der Dosierung schwer zu realisieren	

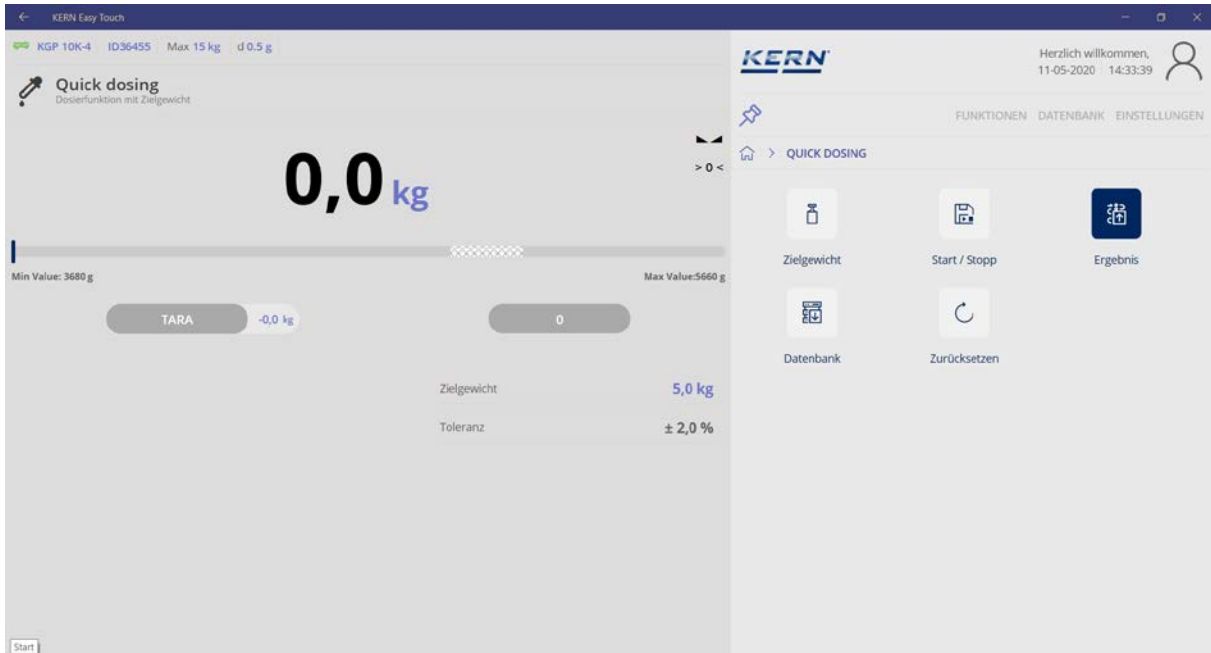
Press CONFIRM to go to the next screen.



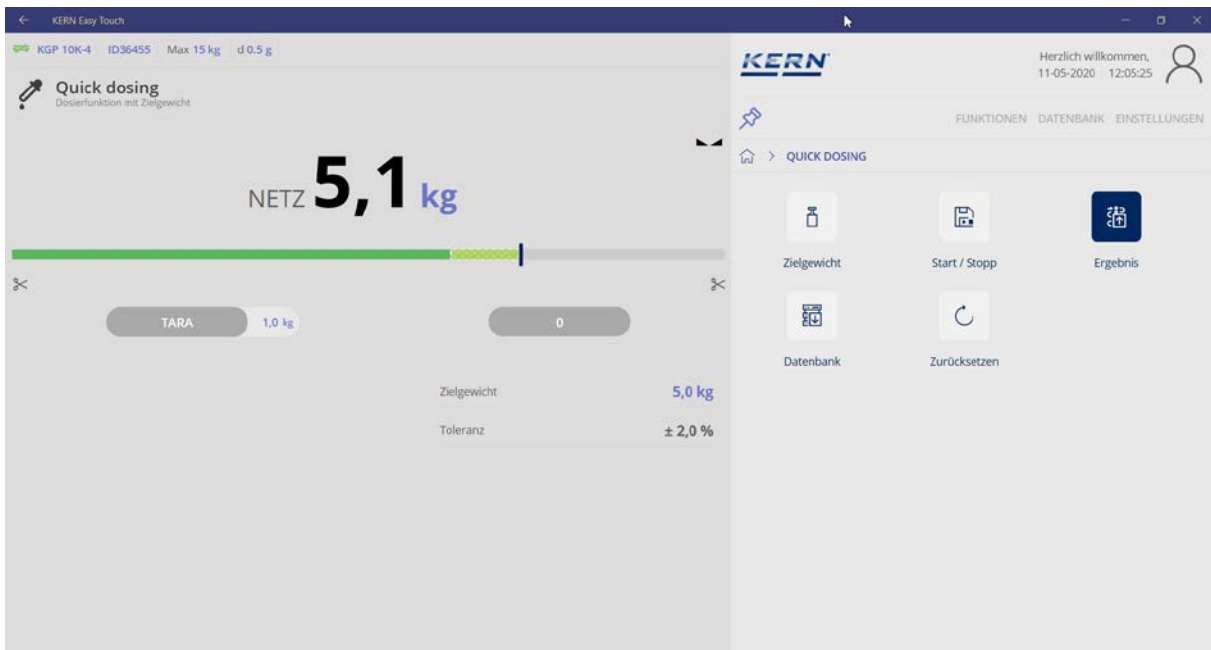
The zero display appears. The zone in grids on the capacity display shows the zone where the weighing good is inside the tolerance limits.



By clicking on the respective scissors beneath the capacity display the lowest (left) and the highest value (right) are shown, which are inside the tolerance limits.



Place the weighing container to be weighed on the weighing plate and tare it. Weigh-in the weighed goods carefully until the bar graph is inside the tolerance limits and an acoustic signal sounds. The target weight is now reached.



## 10.1 Saving with object ID and object name:



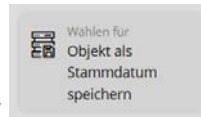
By clicking on „Result“ the object IDs and object names can be assigned to the dosing process, under which it is filed in the database.

This overview can also be printed out:



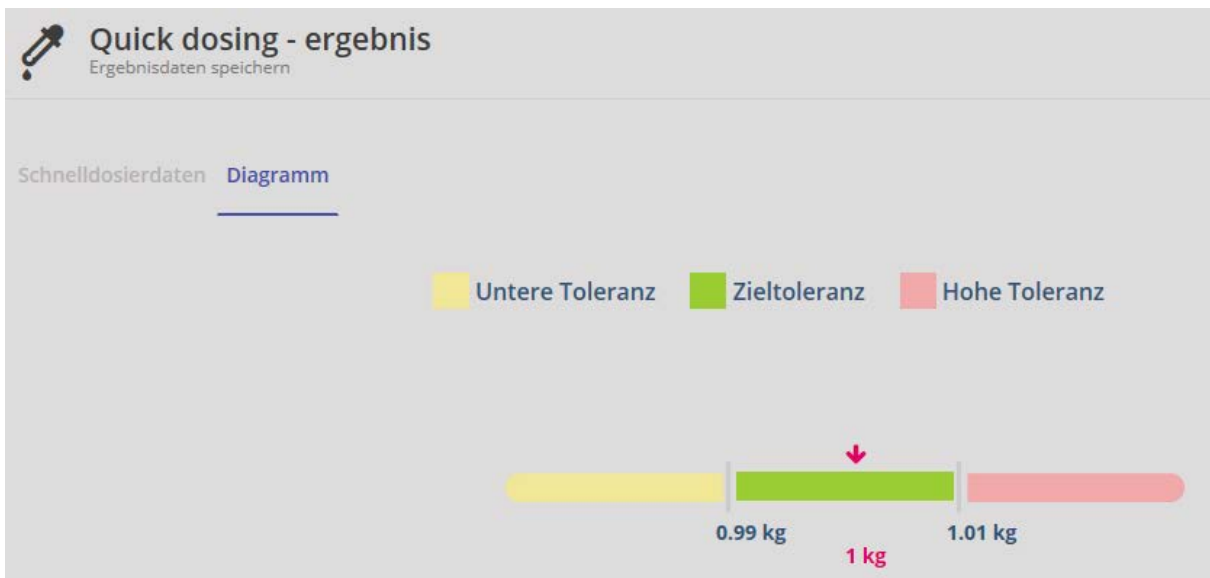
Either with the button in the submenu right or with the button below.

By clicking on „Result“ the object IDs and object names can be assigned to the percent calculation, under which the calculation is filed in the database.



Enter the IDs and store them in the database by

Under the menu item „Diagram“ the tolerances are graphically displayed:





## 11 Database

The KERN ET-software allows to store determined weighing results, components and users in a database.

Here a difference is made between „**Master data**“ and „**Dynamic data**“.

Objects and their properties can be provided with IDs and object names and stored as „**Master data**“.

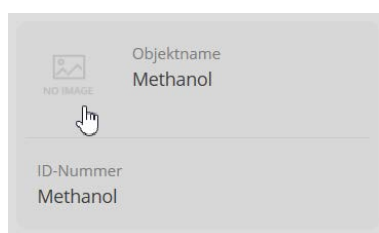
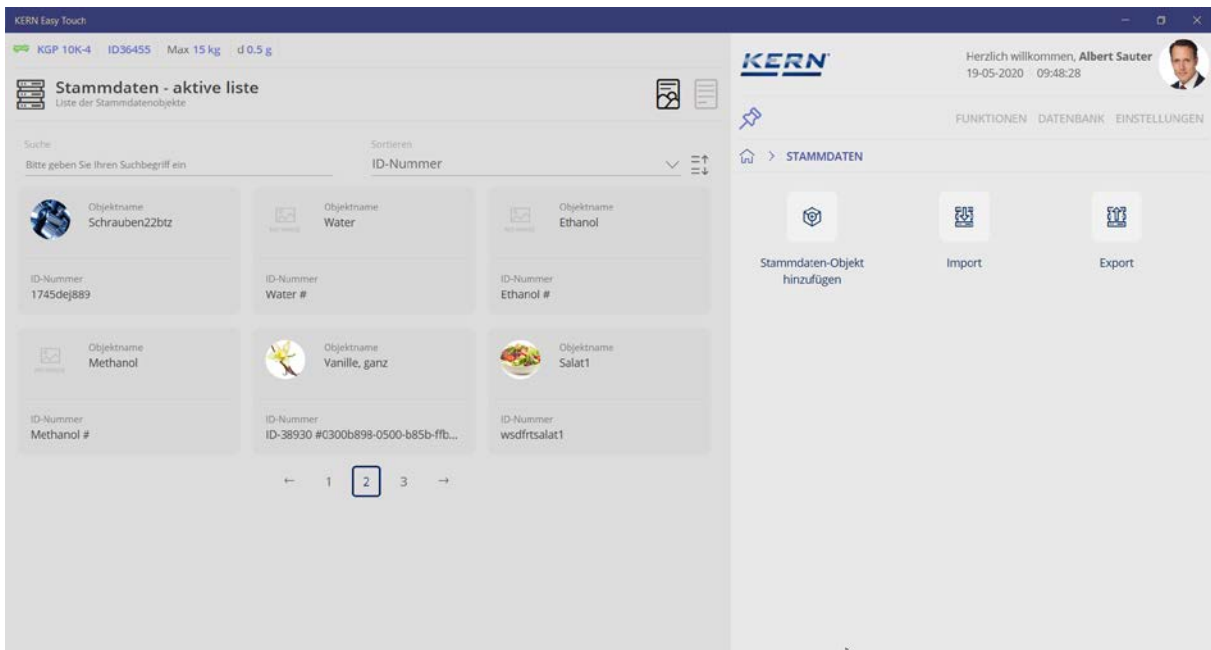
„**Dynamic data**“ refer to weighing processes whose data have been stored in the database protected against manipulation.

### 11.1 Master data

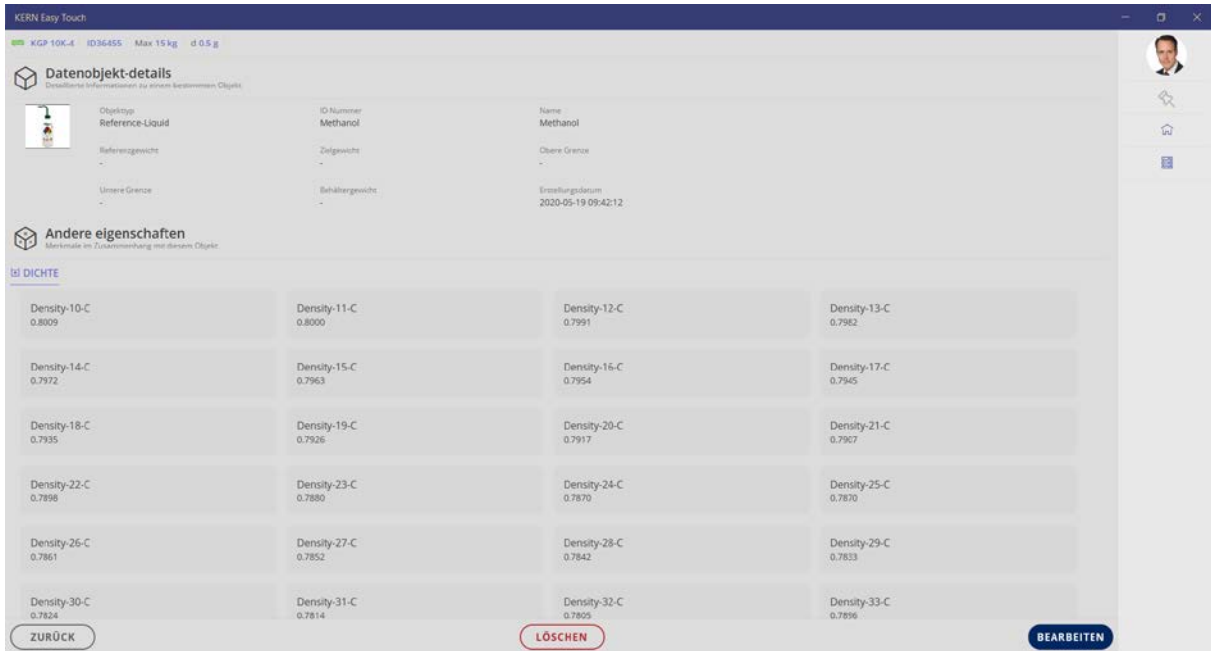
#### 11.1.1 Process master data



In the master menu DATABASE click „Master data“. The overview of the currently filed master data appears:



Clicking on a data field you reach to the overview of this data record:

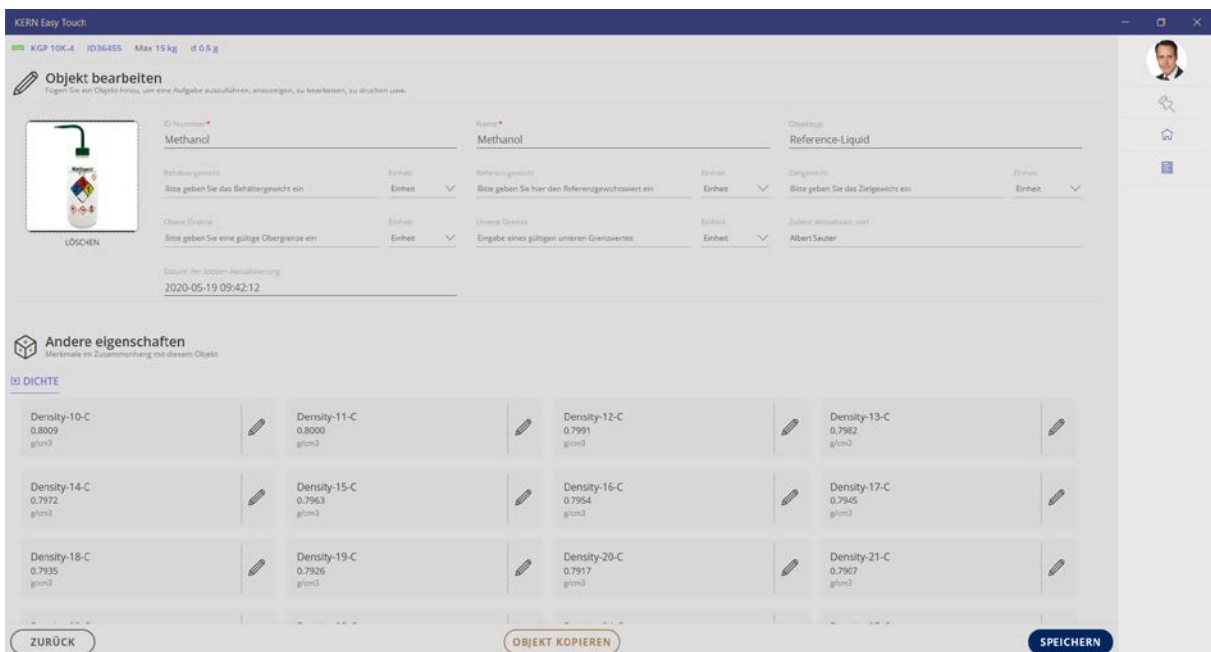


Now these data can be modified by the button EDIT and stored as new ones. Using DELETE the complete data record can be deleted or disabled.

**i** If master data are created, modified or disabled, all these events are saved as well in the dynamic data store protected against manipulation. This makes sure that the complete history of alterations of an object can always be tracked. (Data Traceability)

Clicking EDIT:

All data can be changed in this screen. Alterations are taken over by the button SAVE.



### 11.1.2 Copy and store the master data object

Use the button COPY OBJECT to copy the whole data record and to store it with new ID in the database where it can be edited in the same way.

Here is an example:



Bitte geben Sie eine neue Objekt-ID ein

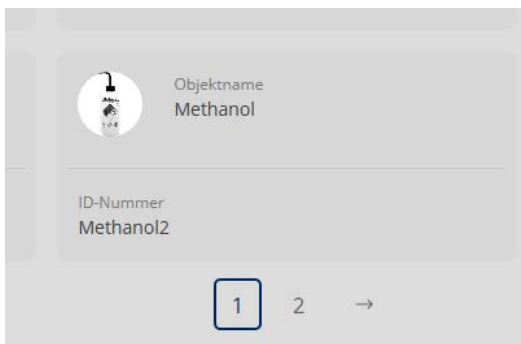
Objekt Identifikation \*

Methanol3

ABBRECHEN AKTUALISIEREN

Change ID and click on UPDATE.

The new database is now created and appears in the master data list.

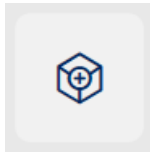


Objektname  
Methanol

ID-Nummer  
Methanol2

1 2 →

### 11.1.3 Create a new master data record




By clicking „Add master data object“ a new data record can be created. The input mask for the new data record appears. Fill out the fields and store the new data record as master data record using TAKE OVER.

KERN Easy Touch

KGP 10K-4 ID36455 Max 15 kg d 0.5 g

#### Neues objekt

Fügen Sie ein Objekt hinzu, um eine Aufgabe auszuführen, anzuzeigen, zu bearbeiten, zu drucken usw.

 **LÖSCHEN**

ID-Nummer

Name

Objekttyp

Behältergewicht  Einheit

Referenzgewicht  Einheit

Zielgewicht  Einheit

Obere Grenze  Einheit

Untere Grenze  Einheit

The new data record appears now in the master data list:

KGP 10K-4 ID36455 Max 15 kg d 0.5 g

#### Stammdaten - aktive liste

Liste der Stammdatenobjekte

Suche  Sortieren

 Objektname  
Schrauben22btz

ID-Nummer  
1745dej889

← 1 **2**



### Function of the central master data memory:

A master data object can be universally used in all functions; it is not restricted to only one function.

#### 11.1.4 Importing data record

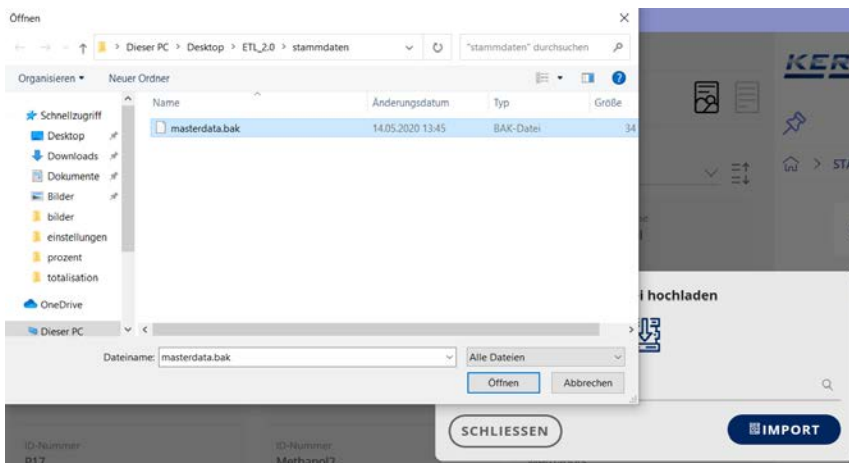


By clicking **IMPORT** a data record can be imported into the master database:

By clicking on the magnifying glass the explorer opens and the desired file can be selected:



Select file, then go to „Opening“ and then again to **IMPORT**:



It is shown how many data records have been selected for import and how many of them are already in the master-data database.

With a click on **OVERWRITE** the new data record is stored in the master database.



In the overview the new data record is also displayed:



By clicking on the data record the detail view appears wherein it can be edited and stored anew.

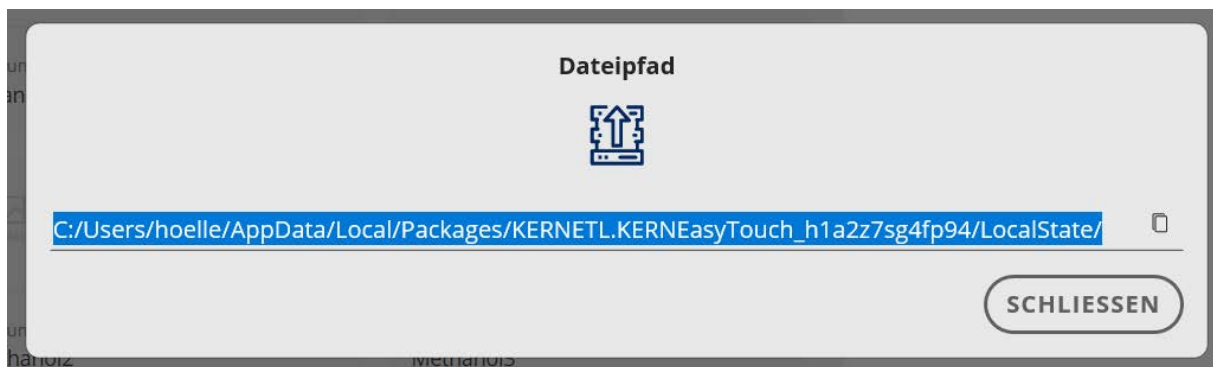
**i** If you desire to import existing master data from existing data bases e.g. from your own ERP system into EasyTouch, please refer to us: [easytouch@kern-sohn.com](mailto:easytouch@kern-sohn.com)

### 11.1.5 Exporting master data record



By clicking on EXPORT all data records of the master database are exported:

Enter file path which leads to the memory location of the data records, on the line and finish the process with CLOSE.



The complete master database has now been copied to the desired location.

## 11.2 Dynamic data



In the master menu DATABASE click „Dynamic data“. The overview of the currently filed dynamic data appears:

MESS-ID	MASTER-OBJEKT-ID	DATUM	ZUF	ENZELHEITEN
TOTAL-W30042020132949	-	2020-04-30	13:29:16	
TOTAL-W05052020105913	P17	2020-05-05	10:43:53	
TOTAL-W05052020112324	P17	2020-05-05	11:20:28	
TOTAL-W05052020113146	-	2020-05-05	11:31:24	
TOTAL-W05052020113612	-	2020-05-05	11:35:44	

### Alternative way of search:

Filtering on relevant ET-application (e.g. piece counting)


By clicking the measuring ID you reach to the weighing function which has been used to create this data record:

**Here is an example:**

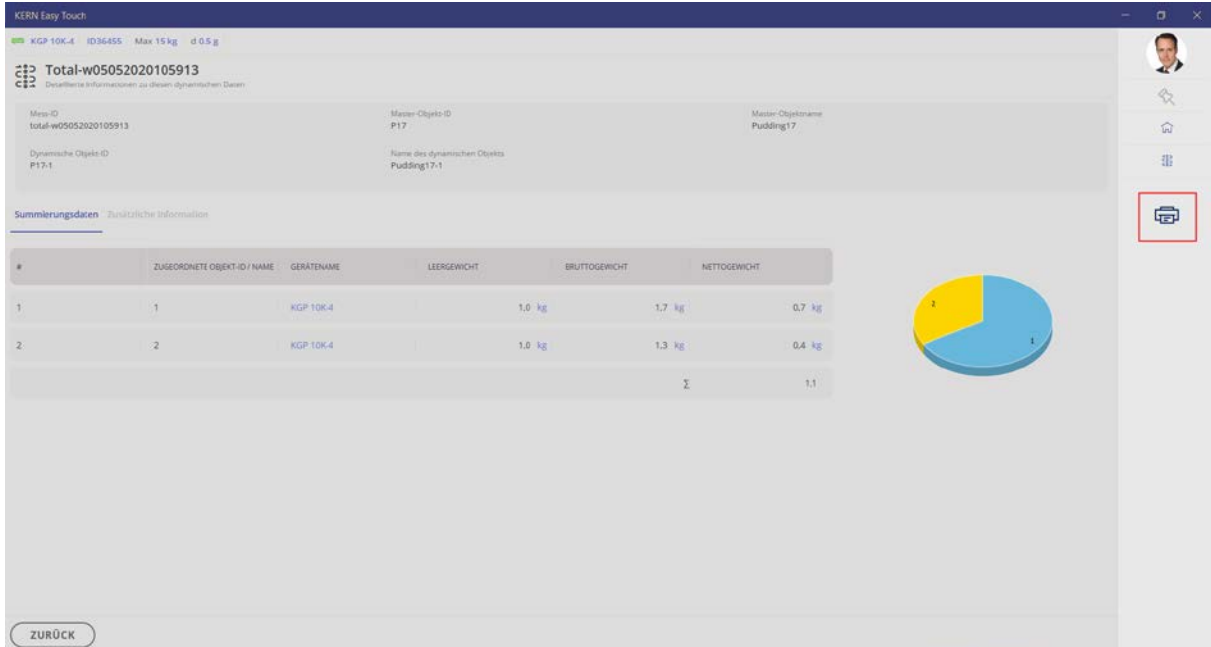
TOTAL-W05052020105913

= Totalisation



By clicking the eye  you reach to the overview of the respective data record.

**Here is an example:**



The screenshot displays the KERN Easy Touch software interface. At the top, it shows the device model 'KGP 10K-4', ID 'ID36455', and capacity 'Max 15 kg d 0.5 g'. The main title is 'Total-w05052020105913' with the subtitle 'Dynamische Informationen zu diesen dynamischen Daten'. Below this, there are fields for 'Mess-ID' (total-w05052020105913), 'Master-Objekt-ID' (P17), 'Master-Objektname' (Pudding17), 'Dynamische Objekt-ID' (P17-1), and 'Name des dynamischen Objekts' (Pudding17-1). A section titled 'Summierungsdaten' (Additional Information) contains a table with the following data:

#	ZUGESCHRIEBENE OBJEKT-ID / NAME	GERÄTENAME	LEERGEWICHT	BRUTTOGEWICHT	NETTOGEWICHT	
1	1	KGP 10K-4		1,0 kg	1,7 kg	0,7 kg
2	2	KGP 10K-4		1,0 kg	1,3 kg	0,4 kg
					Σ	1,1

To the right of the table is a 3D pie chart with two segments, one yellow (labeled '2') and one blue (labeled '1'). A red box highlights a printer icon in the right-hand sidebar. At the bottom left, there is a 'ZURÜCK' button.


By clicking on the print symbol the weighing data can be printed out.

## 12 Settings

The settings for the submenu USER you will find in the chapter User

### 12.1 Company: Settings



Click  : Here you can store company information and the company logo, which can be edited in a printout.



KERN Easy Touch

KG P 10K-4 ID36455 Max 15 kg d 0.5 g

### Unternehmen: einstellungen

Unternehmensinformationen hinzufügen / bearbeiten

**KERN**  
LOSCHEN

Name der Firma*	Unternehmen: Anschrift	Unternehmen: Postleitzahl
Fa. Kern und Sohn GmbH	Ziegelei 1	72336
Unternehmen: Stadt (Region) Bitte geben Sie die Stadt / Region Ihres Unternehmens an	Unternehmen: Land Bitte geben Sie das Land Ihres Unternehmens ein	Unternehmen: Telefon Bitte geben Sie Ihre Firmentelefon ein
Unternehmen: Internet URL Bitte geben Sie Ihre Firmen-Internet-URL ein	Unternehmen: Email Bitte geben Sie die E-Mail-Adresse Ihres Unternehmens ein	



In all printouts of all ET-functions this company footer can also be printed out.

## 12.2 Environment settings

If measurement data cannot be registered by measuring technique, this menu item offers the possibility to enter the following values also manually and then consider them as measured data:

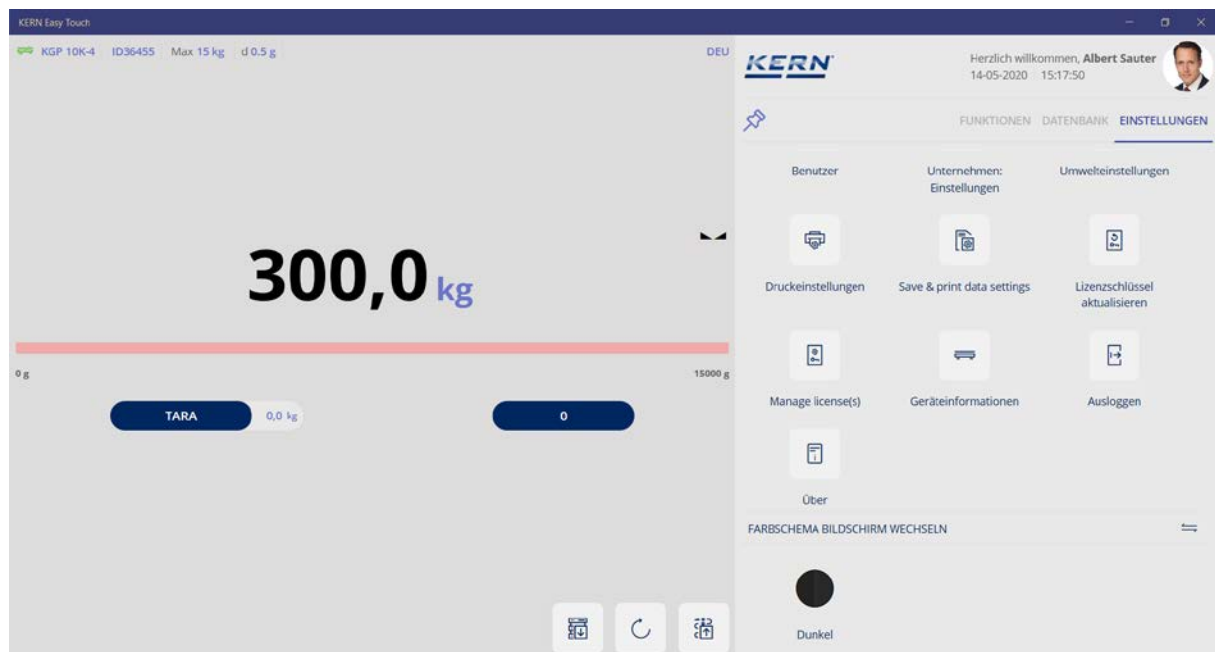


Click :

Umwelteinstellungen Gewicht, Temperatur und Luftdruck manuell hinzufügen / bearbeiten					
Manuelles Gewicht eingeben	Einheit	Geben Sie die Temperatur ein	Einheit	Atmosphärendruck eingeben	Einheit
300	kg	21	°C	1013,25	°Pa
Weight of sample in g or kg		Environment temperature in °C, °F or K		Air pressure in °Pa or °PSI	

Enter values and continue with TAKE OVER:

Here is an example:



The manually entered weight is displayed in weighing mode as a weight value. The red capacity display warns that the maximum load (here 15 kg) has been exceeded. The connected device has only a maximum load of 15 kg.

	<b>Please note:</b> The manually entered weight value must not exceed the maximum load of the connected device.
--	--

## 12.3 Printer settings



Click „Print formats“:

Here you can search within the existing print templates (red marked). The filtered result shows the respective templates:

**Here is an example:**

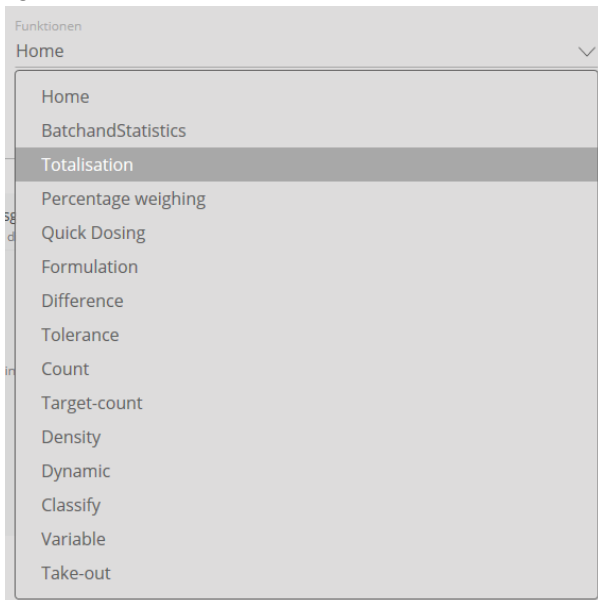


Moreover you can create a new print format. For this purpose press the blue button



„Add print format“. Here you can now define details for the printout:

In the field „Functions“ you can select the function which this printout shall be valid for.



If no function is selected, „Home“ remains existing and this printout will then be valid for all functions.


In the field „Possible print elements“ click those data which have to be printed out. These selected elements are transferred into the field „Active print elements“.

The screenshot shows a configuration window with two main sections:

- Mögliche Druckelemente** (Possible print elements): A list of fields that can be selected for printing. The fields are: Master-Objekt-ID, Master-Objektname (which is selected with a checkmark), Ergebnis, Benutzer, Datum, and Zeit.
- Aktive Druckelemente** (Active print elements): A list of fields that will be printed. The fields are: Master-Objektname, Alibimemory ID, Bruttogewicht, and Seriennummer.

At the bottom of the 'Aktive Druckelemente' section, there is contact information: Fa. Kern & Sohn GmbH, Ziegelei 1, 72336, Balingen, Deutschland. Tel: 07433-993300, E-mail: info@kern-sohn.com, www.kern-sohn.com.

In the field „Selected users“ the user is selected for whom this printout is provided.

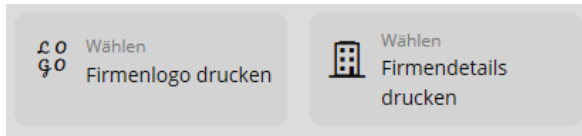
By clicking the small button  „Select user“ the window appears with the overview of all created users and also search fields which can be used to search a user:

The screenshot shows a window titled 'Hinzufügen Benutzer' (Add User). It has a search bar on the left and a list of users on the right. The search bar contains the text 'Bitte geben Sie Ihren Suchbegriff ein'. The list of users includes 'Default User', 'Default Supervisor', and 'Peter Maier' (who has a profile picture).

Click the desired user and then click „Close“. Now the assigned user is displayed:

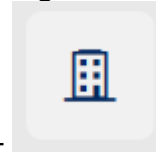
The screenshot shows a window titled 'Ausgewählte Benutzer' (Selected User). It displays the selected user, 'Peter Maier', with a profile picture and a red trash icon to the right. Above the user name, it says 'Für diese Nutzer wird das erstellte Druckformat verwendet' (The created print format is used for this user).

By this way also other users else can be assigned to this printout.



In the fields

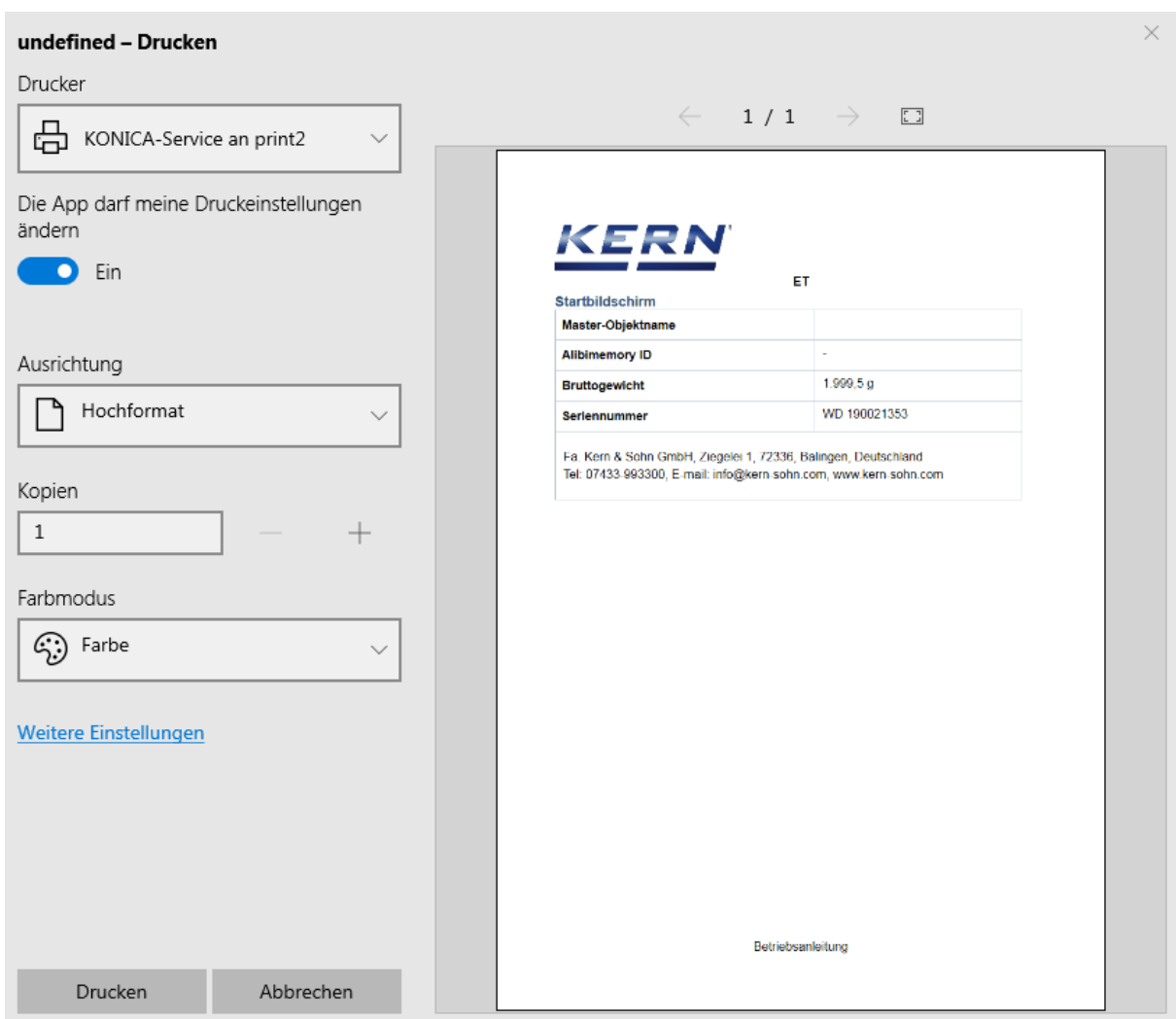
the logo and the company data



are printed out which were stored in the menu „Settings –

Company settings“.

When clicking the button „Preview“ a window opens which shows the print preview:  
**Here is an example:**



By clicking on the righthand button „Take over“ the print element is stored and appears in this overview.

## 12.4 Save & Print settings




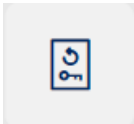
Click :

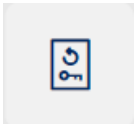
Here you can decide if you want to save and to print out:


- only stable weighing values  
or
- stable and instable weighing values

## 12.5 Update license key

	<b>Please note:</b> An EasyTouch license can always be used on no more than four terminal devices.
---	---



Click :


 **Lizenzschlüssel aktualisieren**  
Wenden Sie sich mit der Maschinen ID Ihres PC/Tablets an das KERN-Team, um den Lizenzschlüssel zu erhalten

Maschinen ID Rechner-ID kopieren

0300ce78-0800-8848-ade8-0005ac910005 Lizenzschlüssel\*

Bitte geben Sie ihren Lizenzschlüssel ein

After downloading the program package from the Windows Store or the Google Play Store, for now all EasyTouch applications are available completely open 30 days for testing purposes. After this the application and the user can purchase in the In-App Shop exactly the licenses which he needs for his processes.

	<b>Please note:</b> The precondition for all EasyTouch application licenses is to purchase at least one basic license (EasyTouch OS: SET-01).
---	--

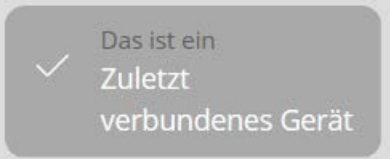
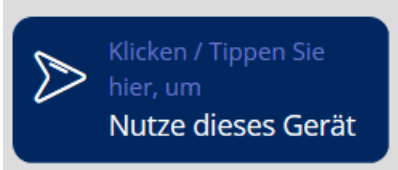
## 12.6 Device information



Click :

A list of the currently created devices is displayed:

<b>i</b>	<b>Please note:</b> Several devices can be connected, but only one device can be enabled i.e. used.
----------	--


↓	↓
<b>Click on the device with the green dot</b>	<b>Click on the device without the green dot</b>
↓	↓
The device details appears, as well as the information that this is the device having been connected as last	The device details appear, as well the button to enable this device
↓	↓
Clicking  , this device is enabled	Clicking  , this device is enabled

By this way you can change over between the devices.




## 12.7 Logout



Click : The currently logged-in user is now logged off. A new user can only log in or the previous user can log in again.

## 12.8 System Info



Click :

The info page of the KERN Easy Touch software appears. Moreover the software-version is displayed.

## 12.9 Restore backup

Under this menu item all system data can be saved and also restored.

### 12.9.1 Save system data:



Click :

The screen to save the system data appears. To complete the name of the backup file enter characters of the format „YYYYMMDDHHMM“.

**Here is an example:**

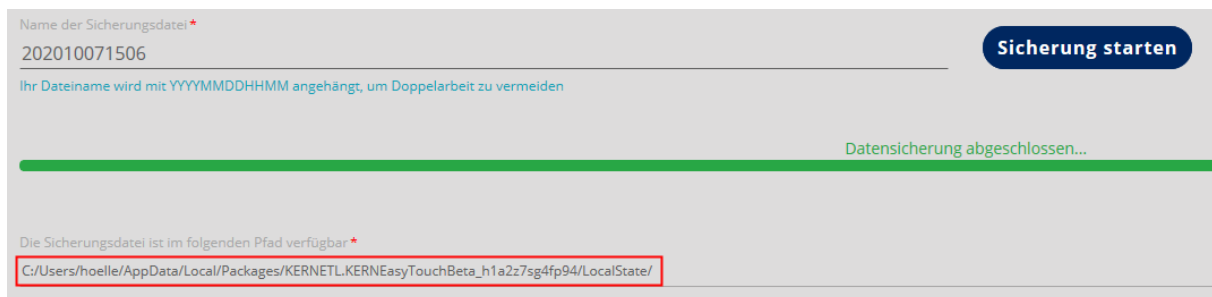
Name der Sicherungsdatei \*

202010071506

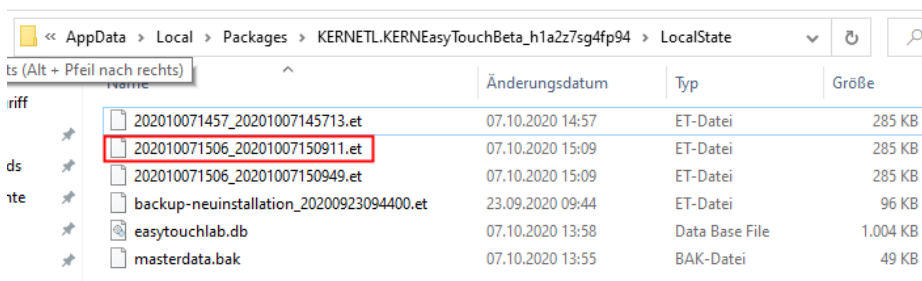
Ihr Dateiname wird mit YYYYMMDDHHMM angehängt, um Doppelarbeit zu vermeiden

Year 2020 – Month 10 – Day 07 – Hour 15 – Minutes 06

After this entry click the blue field „Start backup“. The data backup is running and when concluded the path is displayed where the backup file is located:

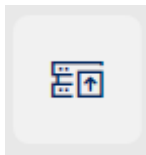




This path can be copied and inserted in the Windows Explorer. There is located the recently created backup file:



### 12.9.2 Restore system data:

To access to the saved data, please proceed as follows:

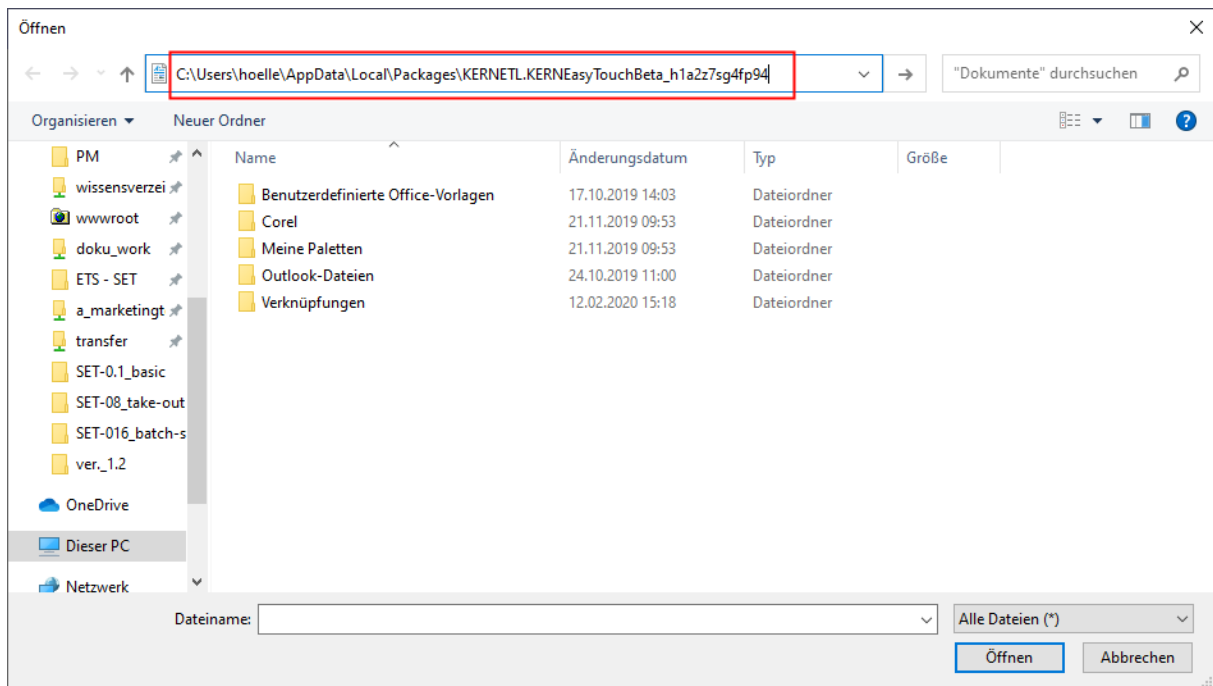


Click  and then righthand in the menu click  „Restore system data“:  
The screen for backup file upload appears:



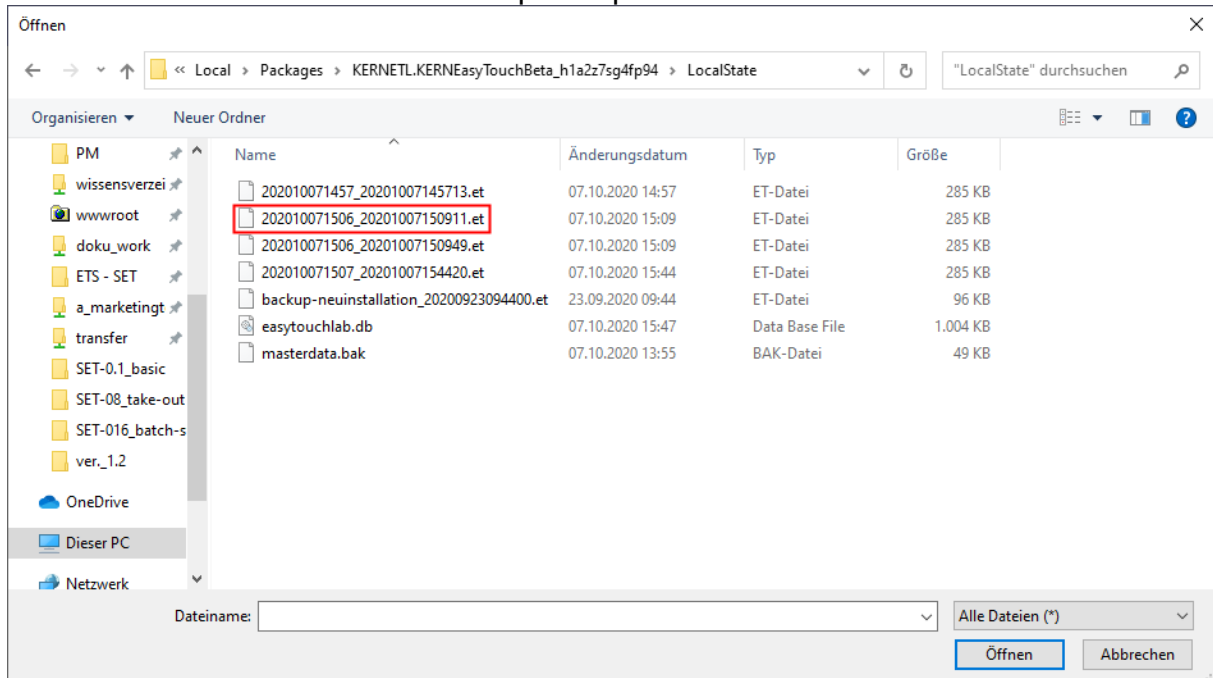
Click the blue field, the Windows Explorer opens.

Insert the path in the address line



and click „Enter“:

The folder which contains the backup file opens. Double-click the desired file:



The screen to start the file restore opens. Click the blue button „Start file restore“



Now the data are restored. After finishing this process a window will shortly appear and inform that the file has been correctly restored and the display changes then automatically into weighing mode.

## 12.10 Screen colour scheme

For the colour scheme you can choose between „Dark“ and „Classic“.