KERN

KERN & Sohn GmbH

Operating instructions
KERN App Tolerance -
Tolerance weighing function

KERN SET-031

Version 1.0
2020-05
GB

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

SET-031-BA-e-2010_tolerance

Contents

1 Weighing function Tolerance – Tolerance weighing function

| ℹ	This function offers the possibility to determine a target weight which is situated inside a certain tolerance (upper/lower limit value). The values can be entered either numerically or in percent.

1.1 Weighing

In the menu FUNCTIONS click button [−✓+] „Tolerance":
The input screen appears:
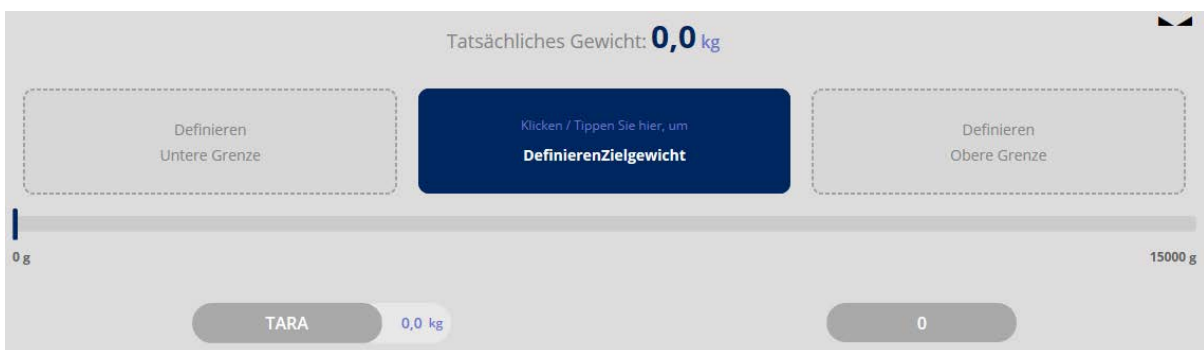
If necessary, place a tare container on the weighing plate and tare with button TARE:
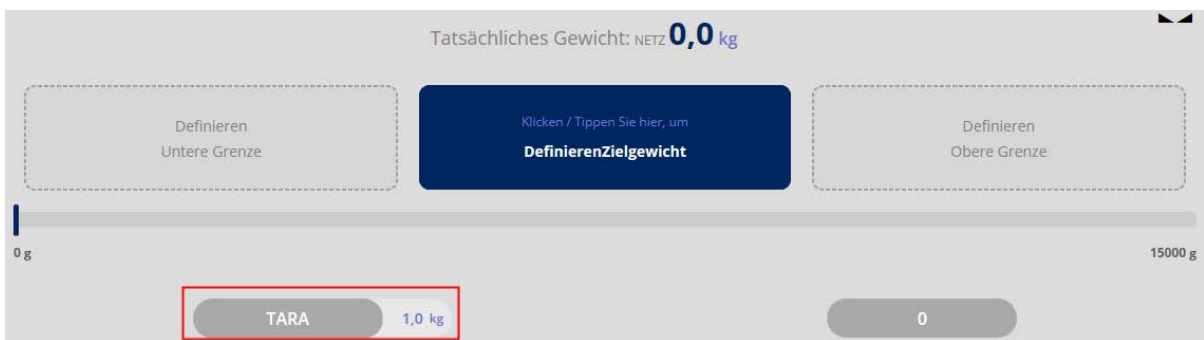
Next determine the target weight. For this click the blue field. The screen to enter the target weight appears:

Enter the target weight and select the weighing unit:
Here is an example:

Then click the CONFIRM button. In the following screen determine the tolerance limits for the weighing good:

Click the fields „Upper and lower limit" and enter the respective value. The value can be entered in grams or as percent value.

Here is an example:

Now enter the upper limit value accordingly.

Now the following screen shows the entered values:

Now you can start weighing. Here are the examples for:

Weighing good below the lower limit value:

Tatsächliches Gewicht: NETZ **1,6** kg

Untere Grenze = **2,0 kg**	Zielgewicht	Obere Grenze = **2,0 kg**
- 5,0 g	**2,0** kg	**+ 5,0** g

TARA   1,0 kg   0

Weighing good matches with target weight:

Tatsächliches Gewicht: NETZ **2,0** kg

Untere Grenze = **2,0 kg**	**OK** Zielgewicht	Obere Grenze = **2,0 kg**
- 5,0 g	**2,0** kg	**+ 5,0** g

TARA   1,0 kg   0

Weighing good above the upper limit value:

Tatsächliches Gewicht: NETZ **2,4** kg

Untere Grenze = **2,0 kg**	Zielgewicht	Obere Grenze = **2,0 kg**
- 5,0 g	**2,0** kg	**+ 5,0** g

TARA   1,0 kg   0

The target weight can be reached by carefully adding or removing weighing good.

Clicking the scissors:

Min Value: 680 g

Max Value:2660 g
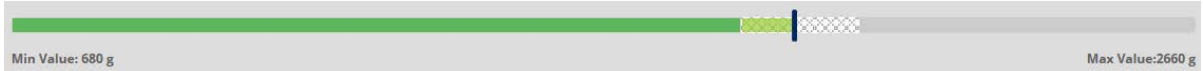
ℹ	The values to the left and to the right on the capacity display describe the relative range (the relevant section of the bar graph), which is actually used with this balance in this measurement.

1.2   Button NCF batch - Batch Charge – Batch management

By clicking the button **[icon]** "NCF batch" a batch (lot) can be provided with an ID.

Here is an example:
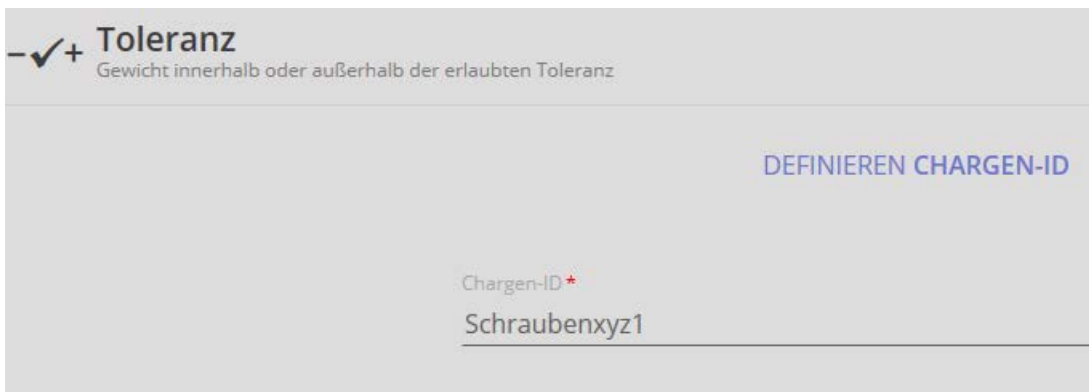
Enter the batch ID and click button CONFIRM:

The screen for entering target weight and limit values appears. Also the previously determined batch is displayed:

As described above, enter target weight and limit values and then start weighing.
When the target weight is reached, a short acoustic signal sounds, then the display changes automatically to the results overview.
Enter here the object ID of the weighing, if you want, also fill out the residual fields.

Here is an example:

Now these values can be stored, either

semi-automatically (green mode by pressing the button) or fully automatic

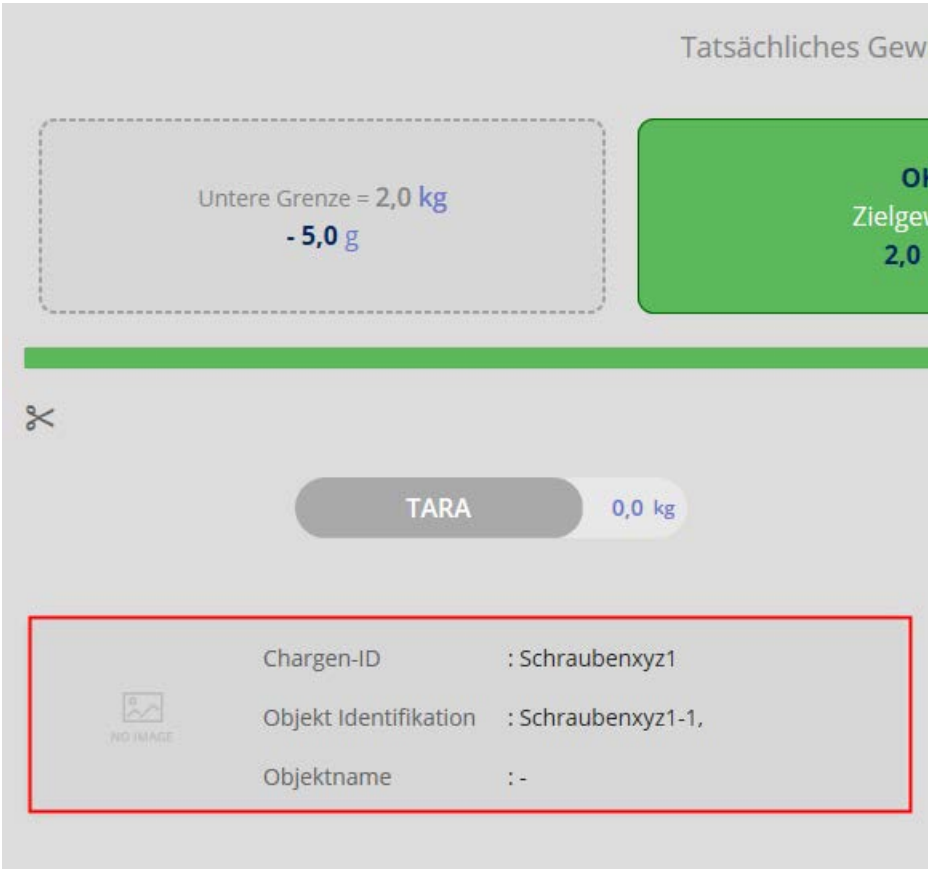(red mode) always after the balance having been unloaded and then reloaded.
That means that the user in mass storing activities doesn't need to press any button and can work efficiently.

The allocation of a batch ID grants that all results which have been achieved under this batch ID, are stored in the dynamic data memory under this ID.

Here is an example:

TOLERANCE-W02062020115808	SCHRAUBENXYZ1-1,	2020-06-02	11:49:20
TOLERANCE-W02062020120213	SCHRAUBENXYZ1-1,	2020-06-02	12:01:38

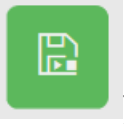After storing the balance changes automatically into weighing mode. Batch and object ID are displayed:

Now the next weighing can take place.

1.3 Start/Stop button

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

The storage can always be initiated either semi-automatically (green mode)

or fully automatically (red mode via button result) every time after
the balance having been unloaded and reloaded.
That means that the user in mass storing activities doesn't need to press any button
and can work efficiently.

1.4 Saving with object ID and object name:

By clicking [icon] "Result" you can attribute object IDs and names to the weighing process, under which it is stored in the database.
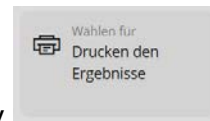
Enter the IDs and store them in the database using [button: Wählen für Objekt als Stammdatum speichern].
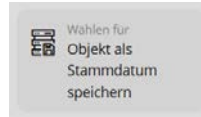
This overview can also be printed out:

Either with the button [icon] in the submenu on the right or by [button: Wählen für Drucken den Ergebnisse] below.

-✓+ Toleranz - ergebnis
Ergebnisdaten speichern

Objekt Identifikation *	Objektname
Wtzr345	Mehl

Dynamische Objekt-ID	Name des dynamischen Objekts
Wtzr345-1	Mehl-1

Zielgewicht	Nettoergebnis
-	2,0 kg

Ergebnis	Leergewicht
-	0,0 kg

Bruttogewicht
2,0 kg

Verwendetes Gerät
PCB 100-3

Ergebnis generiert
durch Max Maier
auf 2020-05-25 | 13:19:34

Seriennummer
WF2054687

Fa. Kern und Sohn GmbH
Ziegelei 1, 72336, null, null

Interner Code
ID36455

Telefon: -

Letzte Justierung
2020-03-10

E-mail: -

Temperatur
21 C

Webseite: -

Wählen für
Objekt als
Stammdatum
speichern

Wählen für
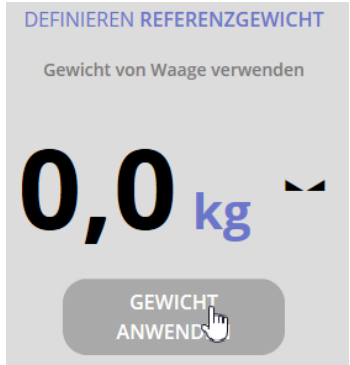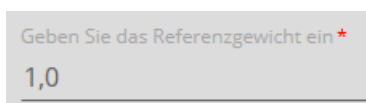Drucken den
Ergebnisse

1.5 Function Tolerance counting

Button :

i	This function offers the possibility to weigh-in and to count parts via a previously determined reference weight.

For that you must determine in this screen the reference weight and the corresponding piece quantity:

You can determine the reference weight either by weighing or by manual input:

By weighing:	**By manual input:**
Place weight on weighing plate, wait for the stability display and click APPLY WEIGHT:	In the respective fields • Reference weight • Measuring unit • Enter the piece quantity which corresponds to the reference weight (see below)
The value is taken over: 	

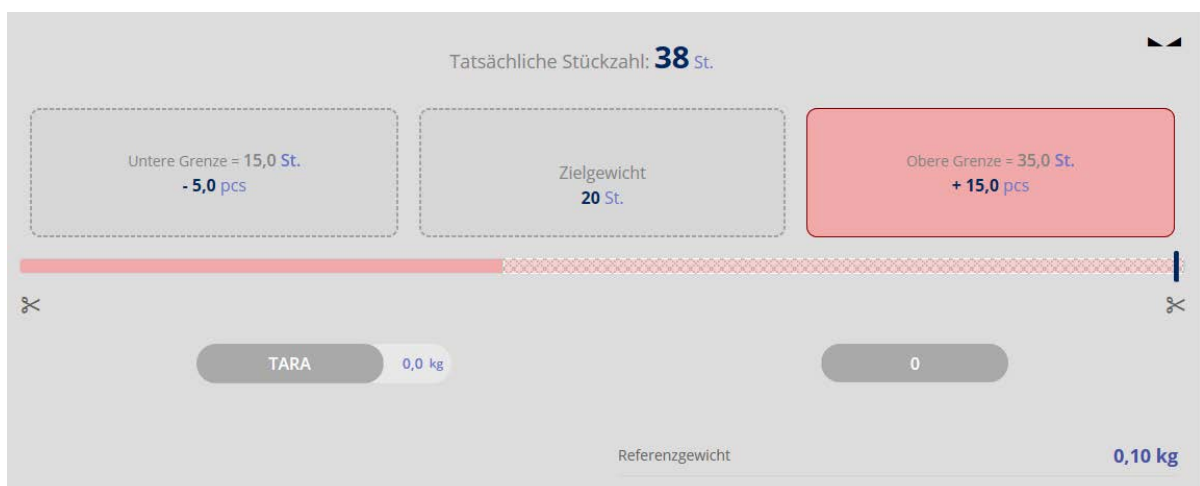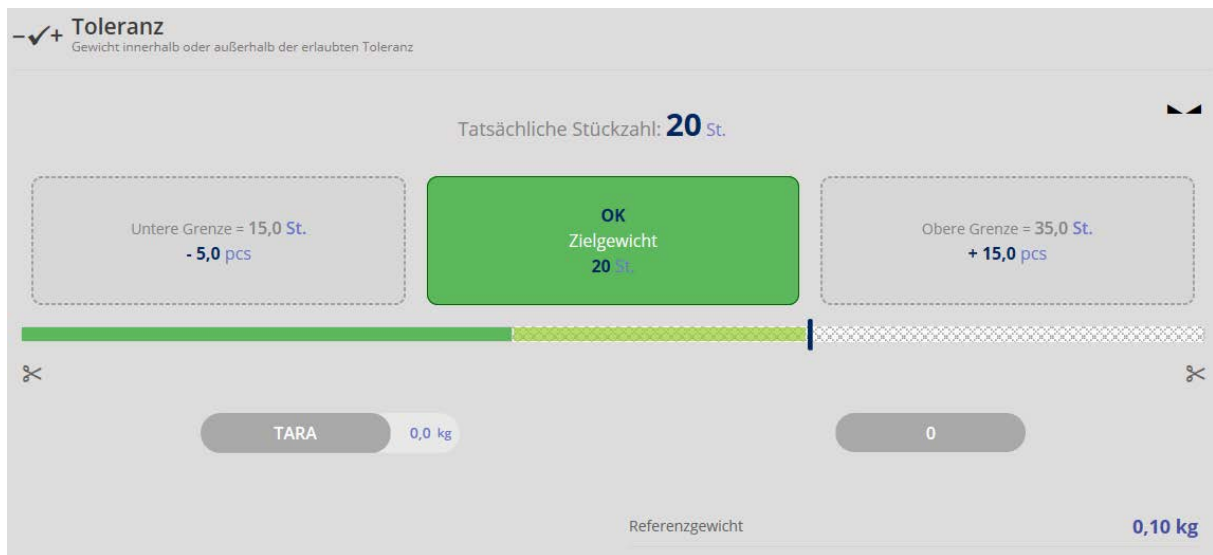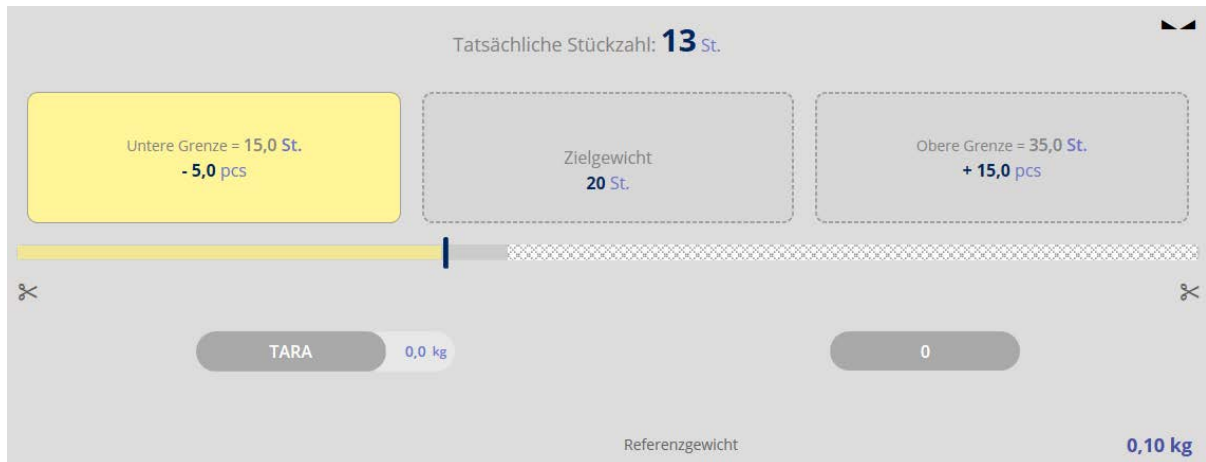Select weighing unit and enter the piece quantity which has to match with the reference weight:

Click CONFIRM.

The screen to enter the target piece quantity and the upper and the lower limit value appears:

Click every field and enter value: Piece number under limit value, target piece quantity and piece quantity upper limit value.

Then start weighing:

In the display the currently placed number of pieces appears, corresponding to the reference. Remove or add pieces in order to obtain the desired target piece quantity (green field appears).