



# USER MANUAL

## RCS Hy-Q-52



Rev. 20211116  
Printing/Typographical errors and model changes reserved.

**PLEASE RETAIN THESE ASSEMBLY INSTRUCTIONS FOR FUTURE REFERENCE**

If you have any queries concerning the duration and terms of the guarantee, please contact your supplier. We would also refer you to our General Sale and Supply Conditions, which are available on request.

The manufacturer accepts no liability for any damage or injury caused by failure to follow these instructions, or from negligent operation or assembly, even if this is not expressly stated in this instruction manual. In light of our policy of continuous improvement, it is possible that details of the product may differ from those described in this manual. For this reason, these instructions should only be treated as guidelines for the installation of the relevant product. This manual has been compiled with all due care, but the manufacturer cannot be held responsible for any consequences of errors. All rights are reserved and no part of this manual may be reproduced in any way.

We would like to inform you about the fact that this RAVAS product is 100% recyclable on the bases that the parts are processed and disposed off in the right manner.

More information can be found on our website: [www.ravas.com](http://www.ravas.com)



## **Table of Contents**

<b>1. Introduction</b>	<b>4</b>
<b>2. Warning &amp; Safety measures</b>	<b>4</b>
<b>3. Use of the RCS Hy-Q-52</b>	<b>5</b>
3.1 Use (accurate weighing)	5
3.2 Operating key functions of indicator	6
3.3 Display Functions	6
3.4 Start-up: set zero first	7
3.4.1 Check zero	7
3.4.2 Set zero: manually	9
3.5 Perform a weighing cycle	9
3.6 Error messages	10
3.7 Load indication bar	12
<b>4. Net / Tare / Gross weight</b>	<b>13</b>
4.1 Net weighing: automatic tare	13
4.2 Net weighing: manual tare (Preset Tare)	14
4.3 Net weighing: Reset tare	16
<b>5. ID entry</b>	<b>17</b>
5.1 Activate and edit ID code	17
<b>6. Adding, Print &amp; Clear memory</b>	<b>19</b>
6.1 Add weight to subtotal	19
6.2 Change active total memory	19
6.3 Print single weight	20
6.4 Send Wifi	20
6.5 Edit, clear and print total registers	21
6.6 Data storage on USB stick	23
6.7 Alibi memory	24
<b>7. User settings</b>	<b>26</b>
7.1 Changing the time and date	26
7.2 Changing the accuracy mode	27
7.3 Changing the operation language	28
7.4 Button functions	29
7.5 Changing button functions & positions	30
7.5.1 Changing button function	30
7.5.2 Changing button position	31
7.6 Show/hide buttons on startup	32
<b>8. RAVAS WeightsApp</b>	<b>33</b>

## 1. Introduction

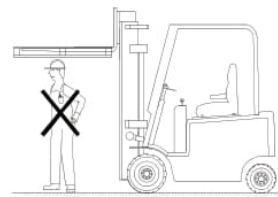
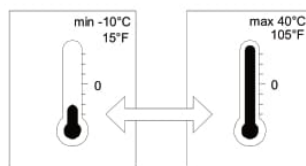
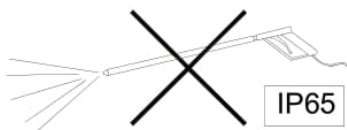
This manual describes the use of the RCS Hy-Q-52. Read this manual carefully. The installer must be informed of the contents of this manual. Follow the contents of the manual precisely. Always do things in the correct order. This manual should be kept in a safe and dry place. In case of damage or loss the user may request a new copy of the manual from RAVAS.

## 2. Warning & Safety measures

When using the RCS HY-Q-52, please carefully observe the instructions and guidelines contained in this manual. Always perform each step in sequence. If any of the instructions are not clear, please contact RAVAS.



- All safety regulations that apply to the truck remain valid and unchanged;
- No weighing operations are allowed if any persons or objects are in the vicinity; around, under or close to the load;
- RAVAS is not responsible for any physical harm done to the operator because of the presence of the indicator in the cabin;
- Any modifications done to the system must be approved in writing by the supplier, prior to any work being completed;
- It is the sole responsibility of the purchaser to train their own employees in the proper use and maintenance of this equipment;
- Do not operate this unit unless you have been fully trained in its capabilities;
- Check the accuracy of the scale on a regular basis to prevent faulty readings;
- Only trained and authorized personnel are allowed to service the scale;
- Always follow the operating, maintenance and repair instructions of this truck and ask the supplier when in doubt;
- RAVAS is not responsible for errors that occur due to incorrect weighings or inaccurate scales.



Should you have any further questions after reading this manual then you can contact us at:

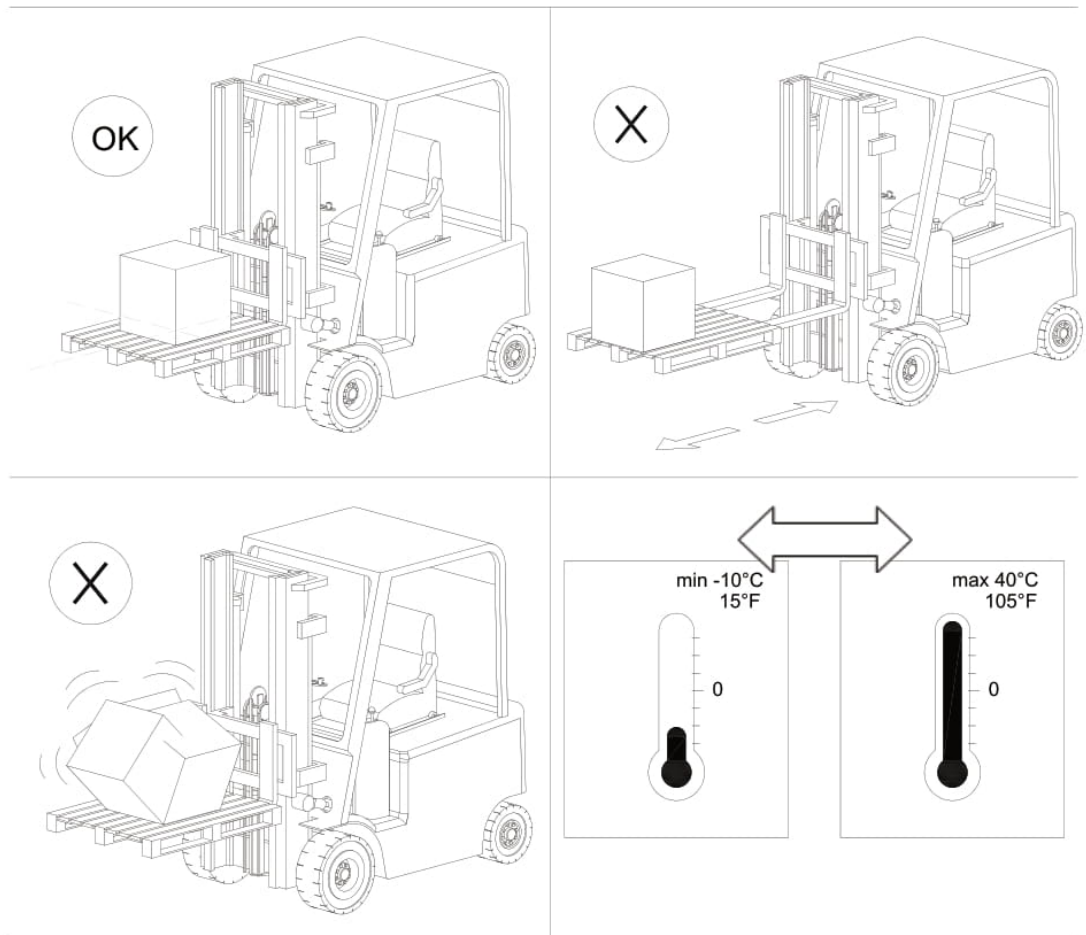
**RAVAS Europe B.V.**  
Veilingweg 17  
5301 KM Zaltbommel  
Netherlands  
Changes reserved.

Phone: +31 (0)418-515220  
Internet: [www.ravas.com](http://www.ravas.com)  
Email: [info@ravas.com](mailto:info@ravas.com)

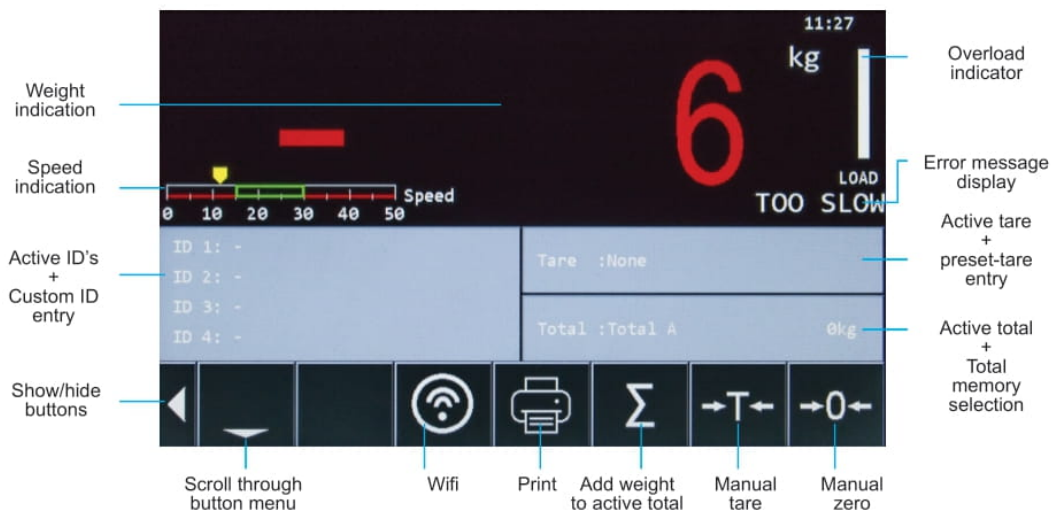
### 3. Use of the RCS Hy-Q-52

#### 3.1 Use (accurate weighing)

To get accurate weight readings always pay attention to the following!



### 3.2 Operating key functions of indicator



### 3.3 Display Functions

<b>kg</b>	Display shows weight in kilograms
<b>lb</b>	Display shows weight in pounds
<b>NET</b>	Display shows net weight
<b>TARE</b>	Display shows tare weight
<b>M</b>	Display shows subtotal memory active
<b>Too fast</b>	Move forks slower
<b>Too slow</b>	Move forks faster
<b>Try constant speed</b>	Operate the forks with a more constant speed
<b>Zero out of range</b>	Make sure the truck is unloaded while setting a new zero
<b>Out of level</b>	Make sure the mast is vertical
<b>Bad calibration</b>	No calibration has been saved

### 3.4 Start-up: check zero first

After start-up of the indicator and before first use of the day, you better check the zero point. The system automatically corrects its zero during the day, so the system weighs correctly with warm oil/ parts/ sensor.

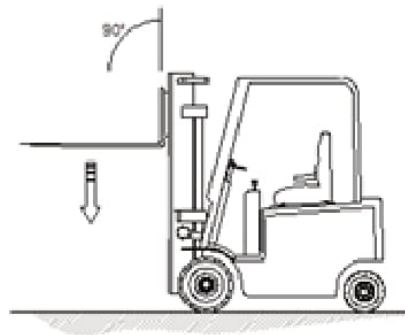
When the truck starts up the next day, the oil is cooled down and there can be greater weighing errors than the system can correct automatically. Therefore you need to check the zero on a cold start-up.

#### 3.4.1 Check zero

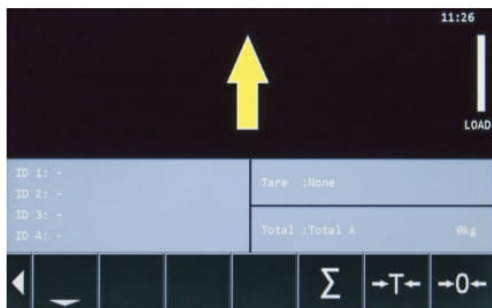
1. Screen after switching on the indicator.



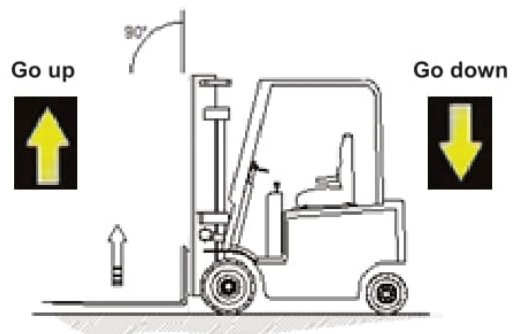
2. Lower the forks, if not on the ground.



3. The yellow arrow guides you in operating the truck to complete a correct weighing.



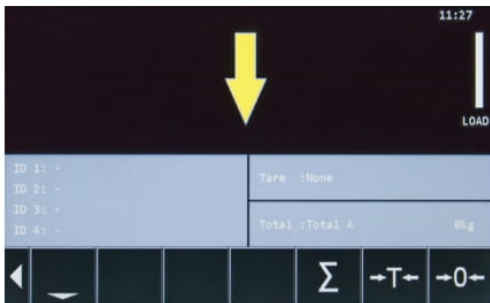
4. Lift empty forks with a constant speed until the blinking yellow arrow at the display shows you to lower the forks.



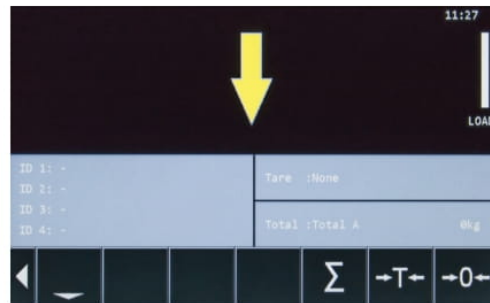
5. After passing the measuring trajectory the speed indicator will show the average speed of the forks if it was incorrect.

**The speed should be in between 10 and 35 cm/s.**

For error messages see: 3.6 Error messages.



6. Lower the forks with constant speed until the forks on the display are in their lowest position.



7. The indicator shows the weight after completing your zero check.



8. If the weight is red, the weighing was not correct. If the indicator does not show zero, a new zero must be set manually. See: 3.4.2

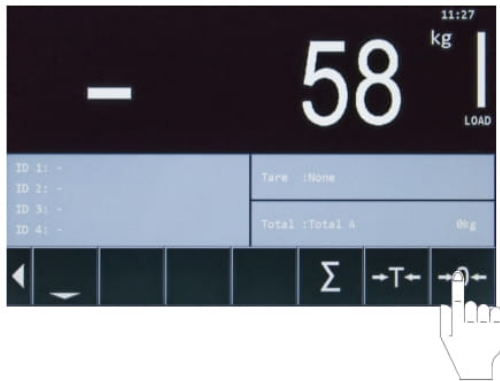




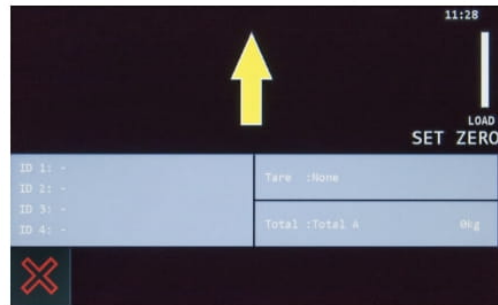
### 3.4.2 Set zero: manually

If zero is off, follow these steps.

1. Press the zero button.



2. Repeat step: 3-8 of 3.4.1.

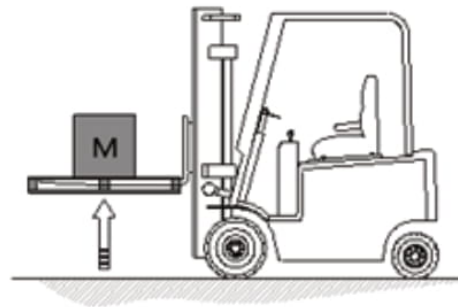


### 3.5 Perform a weighing cycle

1. A weighing cycle can be started at any time in weighing mode. As soon as you lift the weight and pass the first sensor the indicator starts measuring.



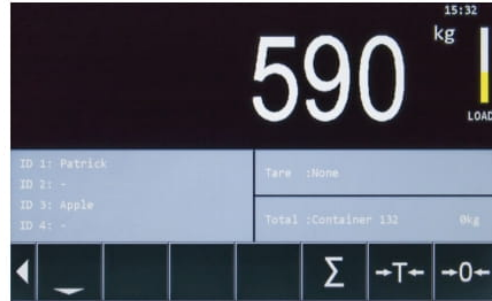
2. To perform a weighing cycle, pick up the load and lift with constant speed for as long as the yellow arrow keeps blinking in upward direction. If the arrow turns in the opposite direction lower the forks until the weight appears in the display. For detailed explanation see: 3.4.1 step 3-6



- If the arrow turns in the opposite direction lower the forks with a constant speed until the weight appears on the display.



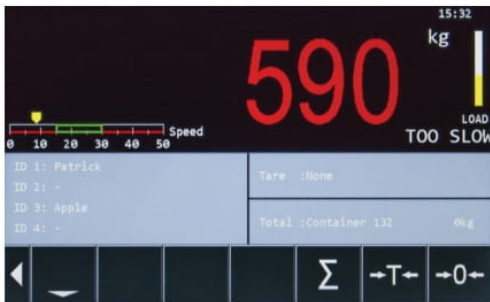
- If the weighing was done correctly it appears in the display without any messages. For error messages see: 3.6 Error messages



### 3.6 Error messages

Whenever a weighing was not done correctly the weight will turn red and the error is displayed.

- Error: **Too slow**  
Move forks faster through weighing trajectory.



- Error: **Too fast**  
Move forks slower through weighing trajectory.



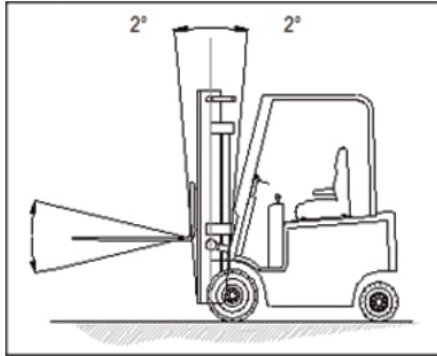
- Error: **Try constant speed**  
Try to move the forks faster with a constant speed through weighing trajectory.



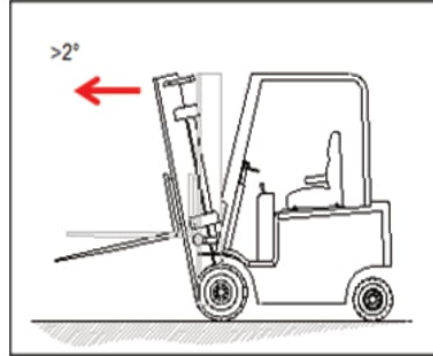
- Error: **Out of level**  
- Level switch is optional:  
make sure the mast is vertical.



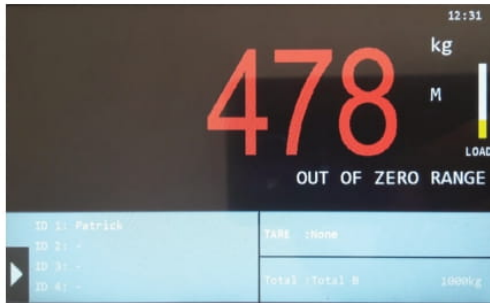
5. Correct: **Mast position**  
Mast is vertical within 2° forward and backward tilting.



6. Error: **Out of level**  
Tilted more than 2° forwards.



7. Error: **Out of zero range**  
The zero offset is too high to perform a zero correction. Check if the forks are empty.



8. **Overload**  
The truck has been overloaded according to its load diagram.



9. Bad calibration.  
There is no calibration saved.



### 3.7 Load indication bar

This bar shows the actual load indication, based on the actual oil pressure.



You don't have to perform a weighing for this reading; it is a constant indication of the load situation.

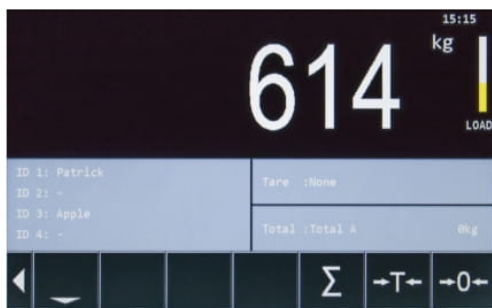
**Yellow** = safe

**Orange** = approaching the maximum capacity of the truck

**Red** = overload

Warning!

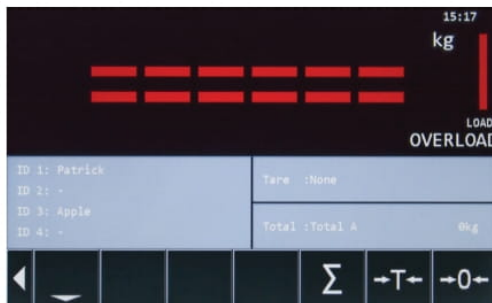
This bar is only an indication of the load.



This indicates a safe loading.



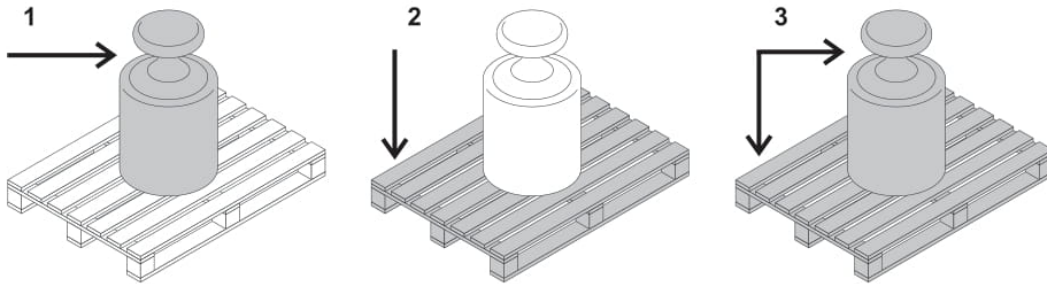
This indicates approaching overload.



This indicates overload.

## 4. Net / Tare / Gross weight

EXPLANATION:  $Net(1) + Tare(2) = Gross(3)$

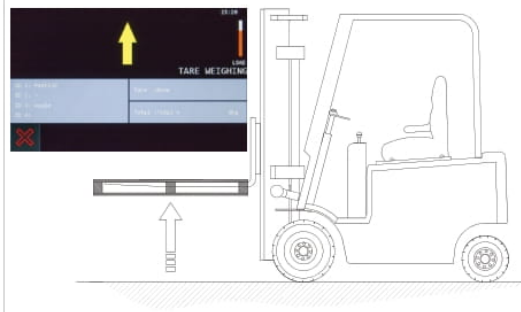


### 4.1 Net weighing: automatic tare

1. Press the →T← key



2. Pick up the tare weight and perform a weighing cycle.  
See: 3.5 Perform a weighing cycle



3. The indicator is set to zero.

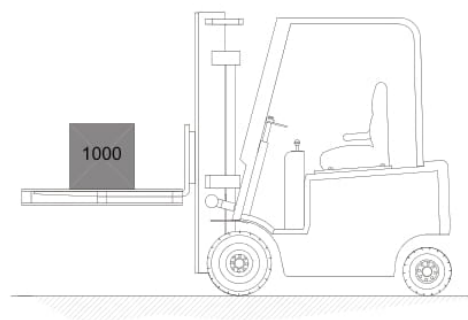
The 'NET' sign shows that the tare weight is activated.

'Tare:860kg' shows the tare weight.



4. The system is now ready to perform a weighing cycle.

Pick up the load and perform a weighing cycle.  
See: 3.5 Perform a weighing cycle



- The display shows the net value of the load weight.

**Important!** To reset the tare see: **4.3 Reset tare.**



## 4.2 Net weighing: manual tare (Preset Tare)

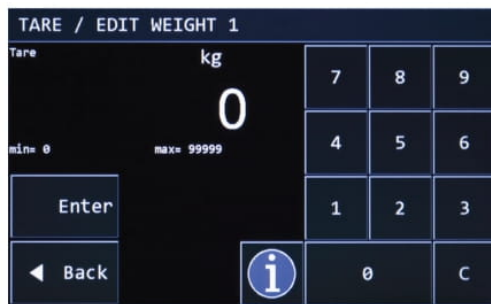
- Press the TARE field



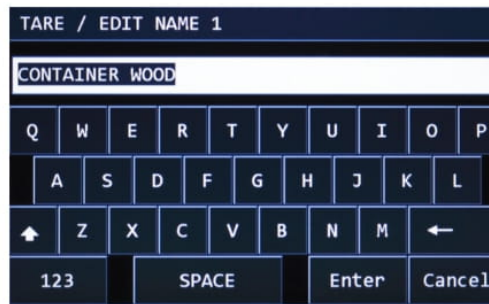
- A pop-up screen appears. Select the desired Preset Tare field.



- If the preset tare you select is empty you have to enter the tare value. Confirm with 'Enter'.



- Name your Preset Tare value (max. 14 characters).

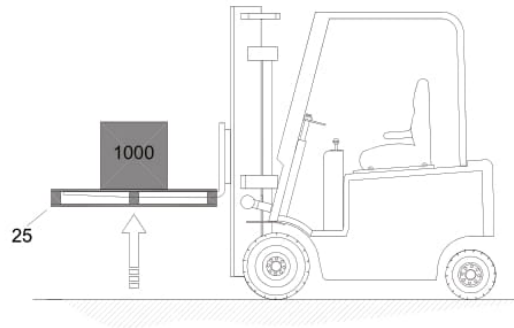


5. The 'NET' sign shows that the tare weight is activated. 'Tare: Container hood 240kg' shows the tare weight.



6. Perform a weighing cycle.

See: 3.5 Perform a weighing cycle.



7. The indicator now shows the NET weight.



**NOTE:** To reset the tare see: 4.3 Reset tare.

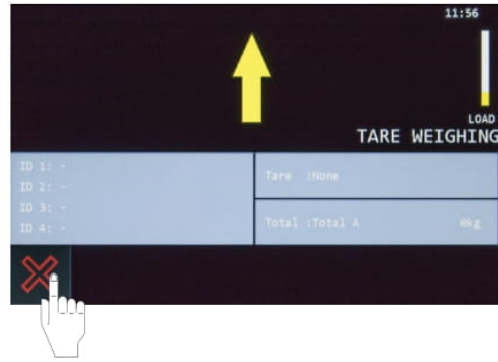
## 4.3 Net weighing: Reset Tare (two ways)

### 4.3.1 option 1

1. If a tare weight is active press the →T← key.



2. Press the X.

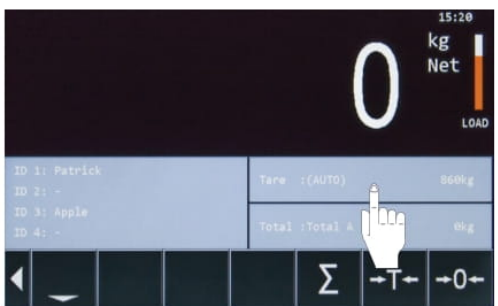


3. The indicator will switch back to the weighing mode and is ready for the next weighing.  
NET sign is gone. In the tare field 'None' is active.

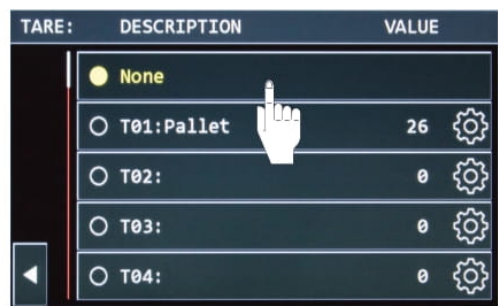


### 4.3.2 option 2

1. Press the preset tare button.



2. Select > none.





## 5. ID entry

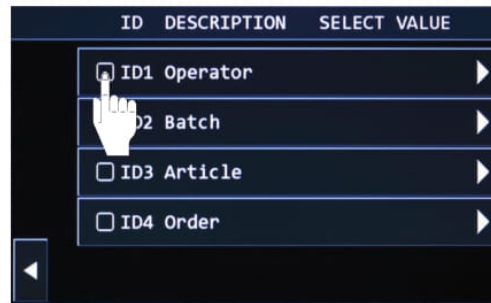
### 5.1 Activate and edit ID code

The RCS Hy-Q-52 allows you to enter up to 4 ID codes which will be visible on the printout or when used with data communication.

1. Press the ID field.



2. On the left side of the button you can activate the ID fields (only the active ID fields will be visible on the printout).

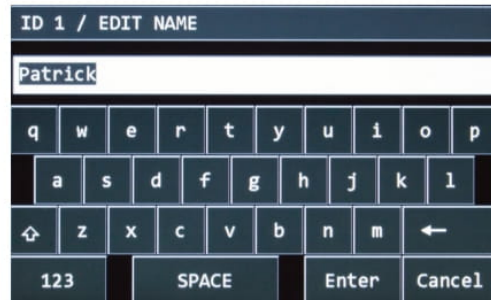


3. If you press on the right side of the button an ID entry field pops up, which allows you to select one of the 10 preset ID codes.

Note: they must be named first on a new system. To change a name, press the settings symbol.



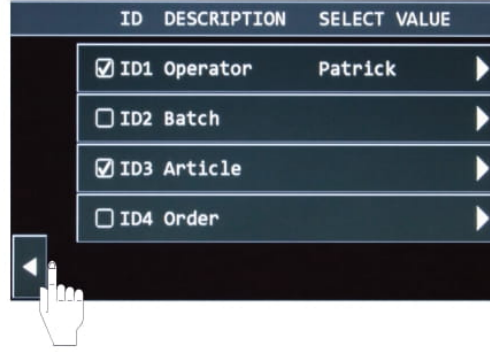
4. Enter ID code or name (max. 14 characters).



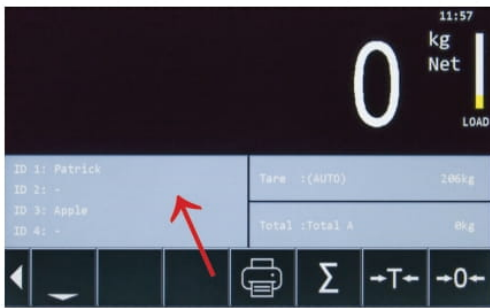
5. After entering one or more ID codes, select your preferred ID and press the back button.



6. Press the back button to return to the weighing mode.



7. Your active ID codes will now be shown on the print out, or when transferring data.



## 6. Adding, print, clear memory & send data

### 6.1 Add weight to subtotal

1. Perform a weighing cycle.

Press the  $\rightarrow \Sigma \leftarrow$  key.



2. The weight is added.

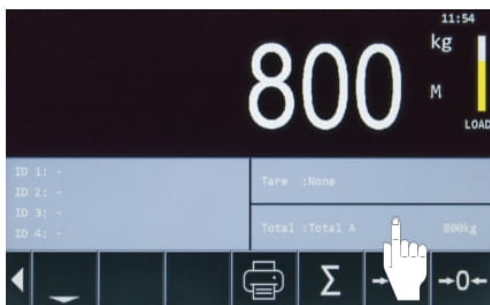


3. The weight has been added to the selected total memory.

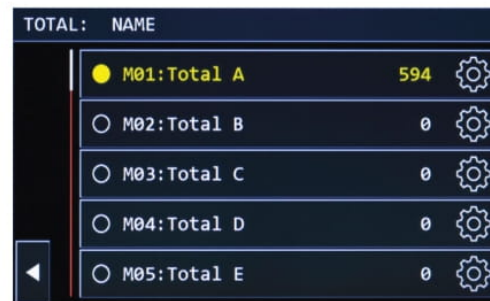


### 6.2 Change active total memory

1. If preferred you can select a total memory, press the total field.



2. Select your preferred total memory.



## 6.3 Print single weight

1. Perform a weighing cycle.



2. Press the printer key.



3. The indicator is now printing.



4. The weight is printed and the indicator is ready for the next weighing.

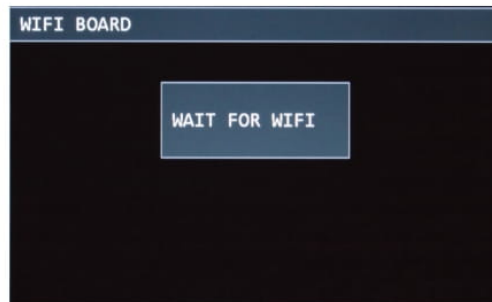


## 6.4 Send WiFi

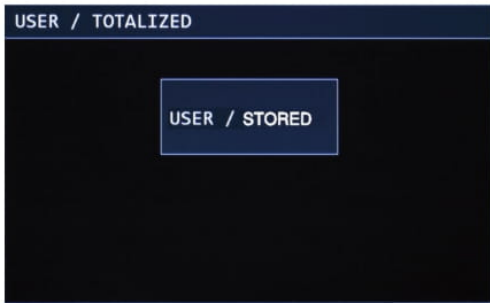
1. First a new weight must be on the display.  
Press the WiFi button.



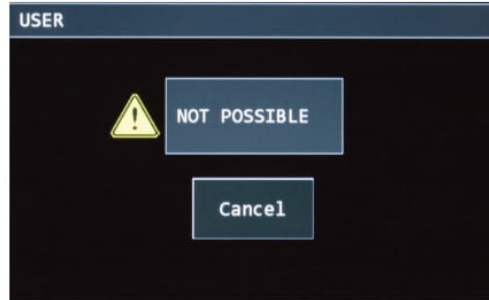
2. The indicator is sending.



- If this is shown, the connection is lost. The weight will be stored in the memory and sent once the connection is recovered.



- It is not possible to send the same weight result twice.



## 6.5 Edit, clear and print total registers

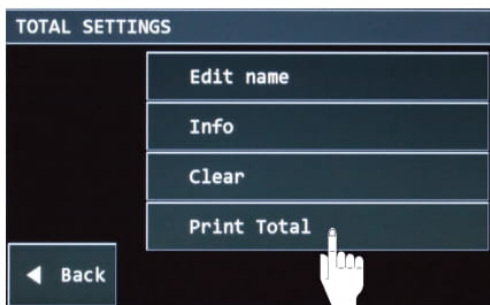
- Press the total field.



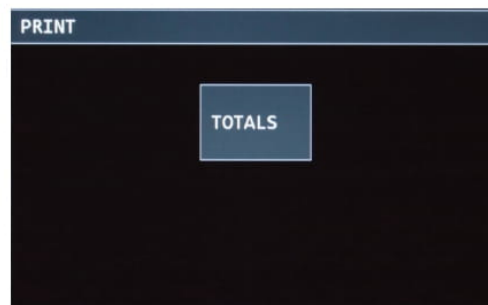
- Select the total memory you want to print or clear and press the settings symbol.



- Press Print Total to get a total print out of the selected total register.



- The indicator is printing your receipt.

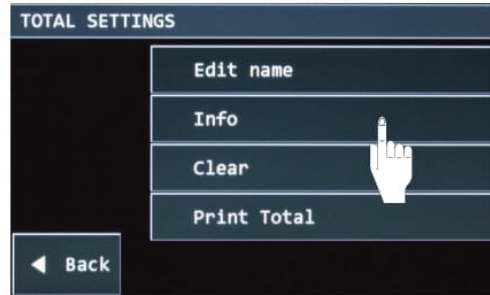


5. If you want to reset the active total memory after printing, press 'OK'.

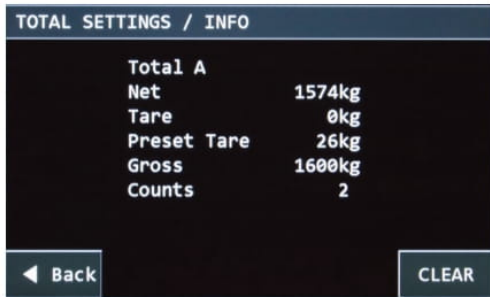


6. Get detailed information about the selected total register.

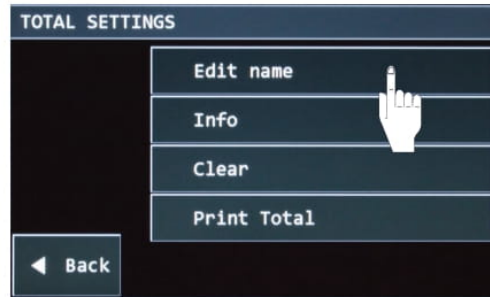
Press 'Info'.



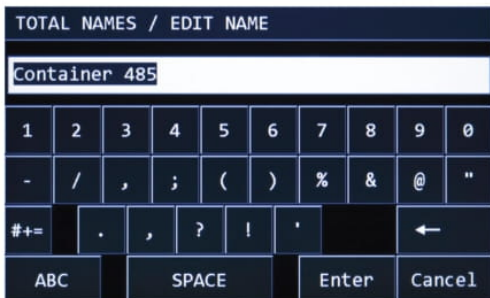
7. Press Clear if you wish to erase all information in this total register. Or go back if you don't wish to change the register.



8. Change the name of the selected total register.



9. You can edit the name, press 'Enter' if you are finished.



## 6.6 Data storage on USB stick

1



After completing your weighings, press the → Σ ← key to save all data on the indicator.

2



After saving the weighing data, place a USB stick in the indicator.

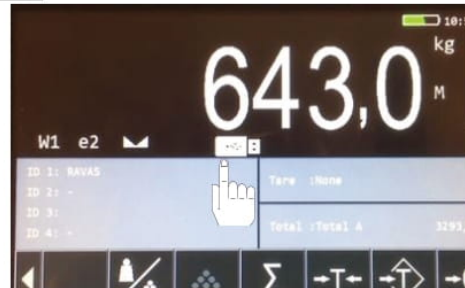
**Note:** Before inserting the stick please read the notes written at nr. 3 of this chapter!

3

### NOTES:

- 1) Make sure the stick is empty or does not contain former weighing data information!
- 2) Insert the stick only when the indicator is turned on!
- 3) Indicator only works with USB stick format FAT32.

4



Once the connection is made, a white image of the USB stick will pop-up on the display.

5

The data transfer will start automatically. As long as the image of the USB stick is green, data are being transferred. Once the image is white again, the transfer has finished.

When the USB stick is connected to your PC, the data file is displayed.

2019-2-11	13-2
RAVAS WLAN connector .NET tool-20161...	12-1
Ravas5200 USB	12-1
Storage	6-5-
WLANConnector	7-4-

6

The data file includes, among other data, information about:

- scale ID
- date
- time
- gross, net and tare weight
- codes, alibis and entered ID's
- piece counts: ID, weights and numbers

## 6.7 Alibi memory

The 5200 indicator has the possibility of an alibi memory. The indicator stores every weighing in its alibi memory and adds a unique number to it.

The data stored in the alibi memory are:

1. Date > this is the date in format dd/mm/yy (EU).
2. Time > this is the time in format hh:mm.
3. Gross weight > displays the gross weight. For example: 233.5 kg or 136,5 lb.
4. Net weight > displays the net weight. For example: 233.5 kg or 136,5 lb.
5. Tare weight > displays the tare weight. For example: 233.5 kg or 136,5 lb.
6. UID Code / Alibi number > this is a 10 digit number which is generated by the indicator itself.

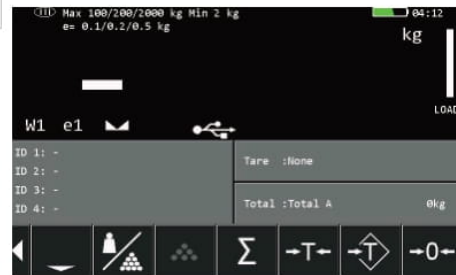
1

On/ Off  
switch



Switch on the indicator by  
pressing the On/Off button.

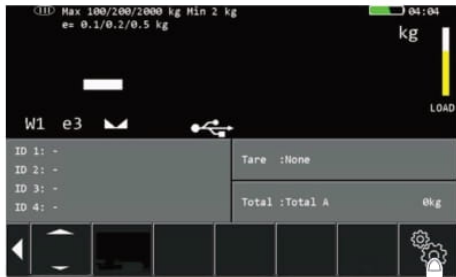
2



Press the arrow down 2 times to  
scroll through the buttons.



3



Press the settings symbol.



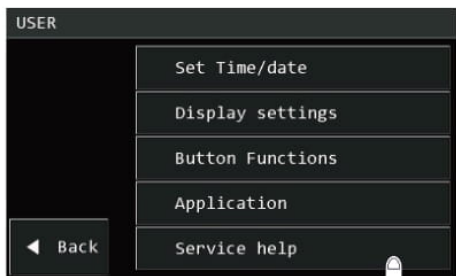
4



Now press 'User Menu'.



5



Press 'Service Help'.



6



Press 'Alibi'.

7



The information of the last weighing is shown on the display.

By pressing 'Prev' you switch to weighings performed prior to the last weighing.

## 7. User settings

### 7.1 Changing the time and date

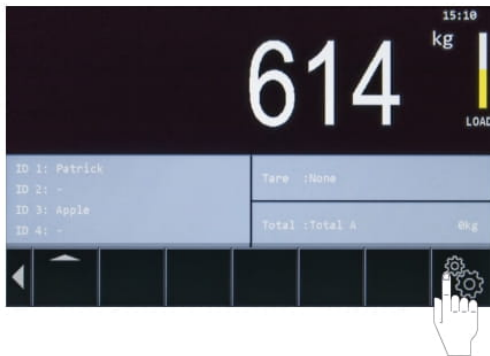
1. Press arrow down.



2. Press on the arrow up/down.



3. Press the user settings symbol.



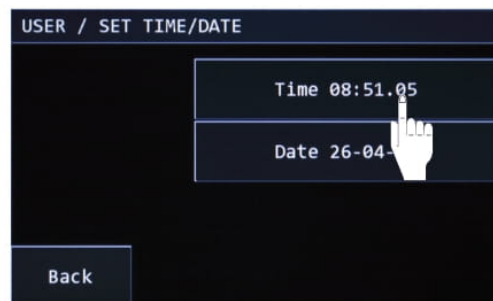
4. Select 'User menu'.



5. Select the parameter you wish to change.



6. For this example we change the time.



7. Enter the correct hour.



8. Change the cursor to the next value by pressing on the '.'

When you are finished, press 'Enter'.



## 7.2 Changing the accuracy mode

Default the system is set to 'Easy' mode. This will open up the speed window of your measurements, and makes it possible to lift and lower faster.

If you need to perform a lot of weighing cycles and wish to have the weighing actions shorter you can leave the Weighing mode on 'easy'.

Note: This may cause the system to be slightly less accurate. If a higher accuracy is needed you can set it to 'Accurate'.

1. Press 'Weighing mode'.



2. Select 'Accurate' and press 'Enter'.

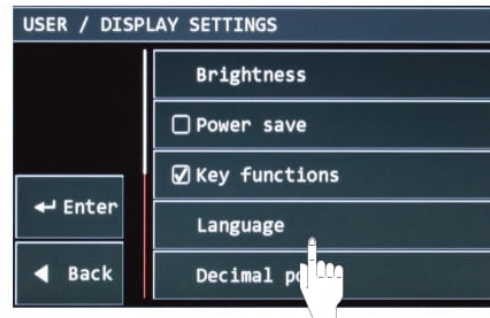


## 7.3 Changing the operation language

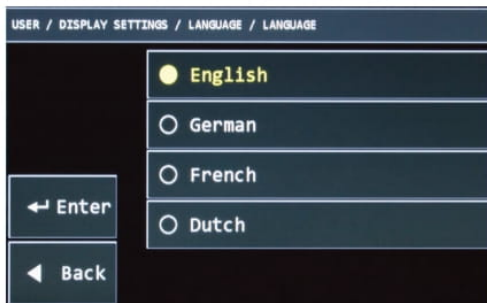
1. Select 'Display settings'.



2. Select 'Language'.



3. Select the preferred language and press 'Enter'.



## 7.4 Button functions

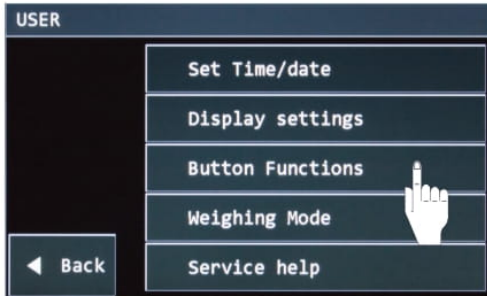
The indicator 5200 contains 24 different button functions. For some of these buttons you can adapt both function and location. For the majority you can only change the location.

	<b>Reset to default</b> All buttons are reset to the default settings of the user		<b>PT2 Scan</b> location only
	<b>Printer</b> function and location		<b>Toggle weight/piece</b> location only
	<b>Send WiFi</b> function and location		<b>Reference weight</b> location only
	<b>Summing</b> function and location		<b>Weighing mode</b> location only
	<b>Tare</b> location only		<b>Piece count mode</b> location only
	<b>PTare</b> location only		<b>Scale selection</b> location only
	<b>Zero</b> location only		<b>Toggle unit</b> location only
	<b>ID1 Scan</b> location only		<b>Setpoint 1</b> location only
	<b>ID2 Scan</b> location only		<b>Setpoint 2</b> location only
	<b>ID3 Scan</b> location only		<b>Start dosing</b> location only
	<b>ID4 Scan</b> location only		<b>Stop dosing</b> location only
	<b>PT1 Scan</b> location only		<b>Reset to factory</b> All buttons are reset to the default settings of the factory

## 7.5 Changing button functions & positions

### 7.5.1 Changing button function

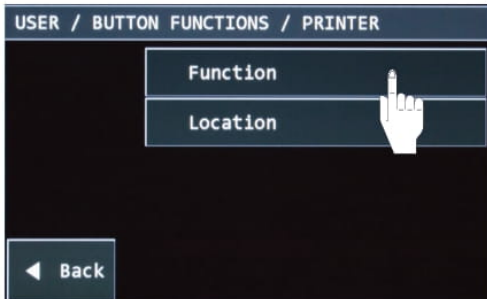
1. Go into the user menu. Select Button Functions.



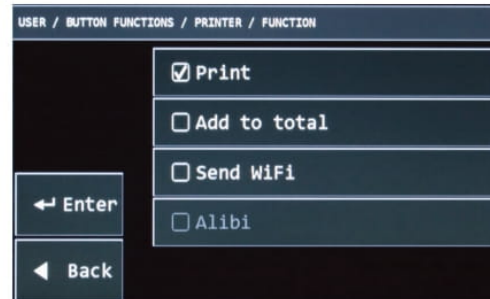
2. Select the button you wish to change. For this example we take the print button.



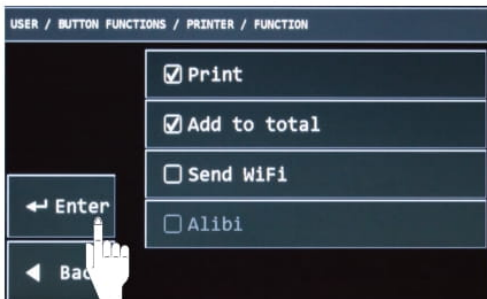
3. Select Function.



4. Check the boxes of the actions you want to happen after pressing the 'Printer' button.



5. When you are finished, press 'Enter'. The changes will be saved.

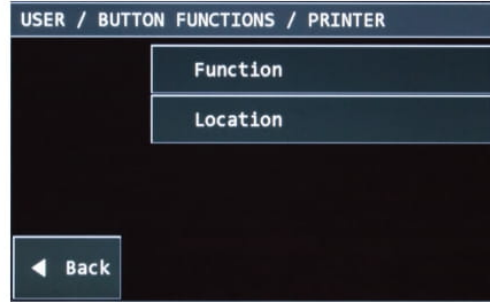


## 7.5.2 Changing button position

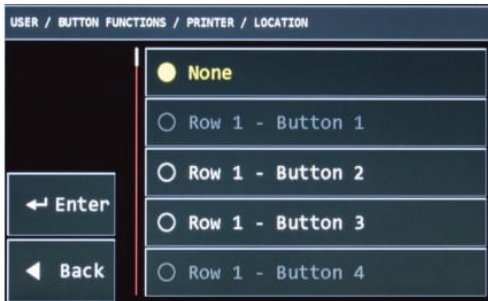
1. You can also change the location of the buttons. To hide buttons that are not used and get frequently used buttons to a better location.



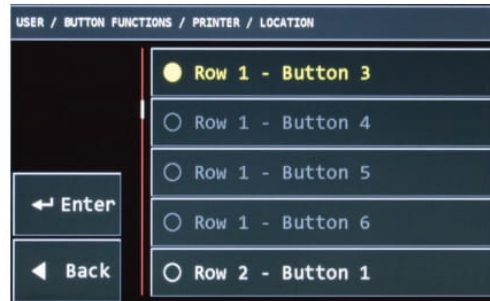
2. Go to button functions in the user menu. Select the button you wish to move. Printer button for this example.



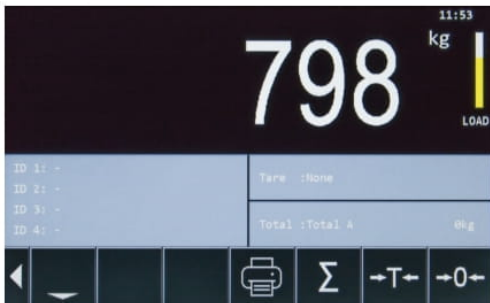
3. If a button is not in use, because in this example the printer is installed after delivery. The default location is None.



4. Select the row and button position on which the printer button should be located. Save changes by pressing 'Enter'.

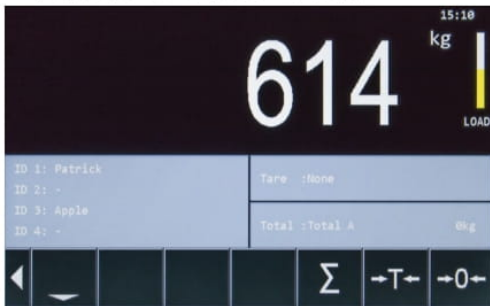


5. The printer button is now present on button row 1.



## 7.6 Show/hide buttons on startup

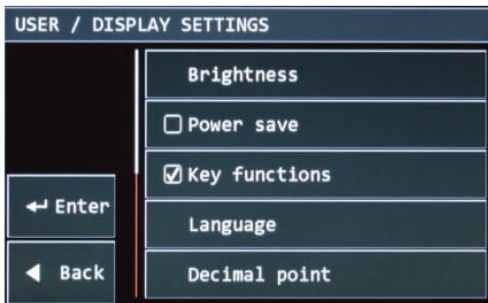
1. Default on start-up the buttons are always present at the bottom of the display. By pressing on the '<' they can be hidden. But the next time you switch on the indicator they are back. Follow the following steps if you wish to always hide the buttons.



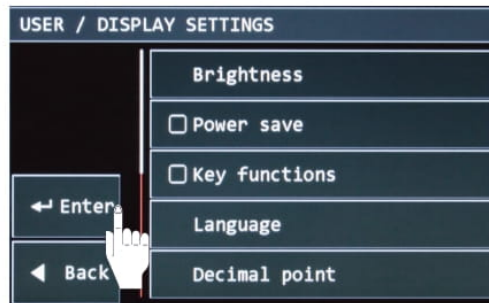
2. Go into the user menu. Select 'Display settings'.



3. The checkbox for 'Key Functions' is checked, meaning the buttons are always present.



4. Uncheck the box to hide the buttons on start-up. Press 'Enter' to save the changes.



5. The weight will be displayed bigger without the buttons active. If you need the buttons, press '>'. A hand cursor is pointing at the right arrow button on the bottom left of the display.





## 8. RAVAS WeightsApp - applicable for RCS Hy-Q-52

With the RAVAS WeightsApp you can read the data from your mobile weighing system directly from your smartphone or tablet.

The app not only displays the weight in large digits on a smartphone or tablet, it also stores the weighed gross weights, tare weight, product code, date & time and the ID of the device or operator. The data can be sent to any email address as a CSV file, after which it can be imported in a spreadsheet program on a PC.



### From the app you can:

- enter the ID of an operator or device
- enter tares (automatically or manually)
- zero the weighing system

Date and time are automatically generated. If your Android device has an integrated barcode scanner, you can use it to enter product IDs.

The RAVAS WeightsApp can be downloaded for free from Google Play and the Apple Store.

For instructions for the use of the RAVAS WeightsApp see [www.ravas.com](http://www.ravas.com).