

# RAVAS

## USER MANUAL **iForks-52 (XT)**



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

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

Rev. 20211115

Printing/Typographical errors and model changes reserved.



**PLEASE RETAIN THESE 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.

## Table of Contents

<b>1. Introduction</b>	<b>4</b>
<b>2. Warning &amp; Safety measures</b>	<b>4</b>
2.1 Lithium Ion Battery	5
<b>3. System setup</b>	<b>7</b>
3.1 Installing the <b>iForks-52 (XT)</b>	7
3.2 Locking the <b>iForks-52 (XT)</b>	7
3.3 Installing the indicator	8
3.4 Placing the battery packs in the <b>iForks-52 (XT)</b>	9
3.5 Connecting and switching on the <b>iForks-52 (XT)</b>	10
<b>4. Use</b>	<b>11</b>
4.1 Indicator functions	11
4.2 Display functions	11
4.3 Net / Tare / Gross weight	13
4.3.1 Net weighing: automatic tare	13
4.3.2 Net weighing: manual tare (PT)	15
4.4 Net weighing: reset tare (two options)	16
4.5 Activate and edit ID-Code	17
4.6 Adding, print, clear memory & send data	19
4.6.1 Add weight to subtotal	19
4.6.2 Change active total memory	19
4.6.3 Print single weight	20
4.6.4 Send WiFi	20
4.6.5 Edit, clear and print total registers	21
4.7 Piece counting	23
4.7.1 Activating piece count function	23
4.7.2 Entering piece weight manually	24
4.7.3 Calculating piece weight	25
4.8 Data storage on USB Stick	26
4.9 Change the time and date	27
4.10 Enter setpoints	29
4.10.1 Enter setpoints for overload	29
4.10.2 Enter setpoints for filling/dosing	30
4.11 Button functions	32
4.12 Change button functions & positions	33
4.12.1 Change button functions	33
4.12.2 Change button positions	34
4.13 Show/hide buttons on startup	35
4.14 Debug mode for user	36
4.15 Alibi memory	38
<b>5. Warnings and error messages</b>	<b>40</b>
5.1 Tip and side load warnings	40
5.2 Mast position	41
5.3 Error messages	42
<b>6. Maintenance</b>	<b>44</b>
<b>7. RAVAS WeightsApp</b>	<b>45</b>

# 1. Introduction

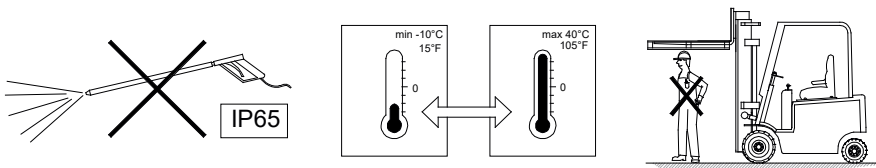
This manual describes the installation and use of the **iForks-52 (XT)**. Read this manual carefully. The installer must be informed of the contents of this manual. Always do things in the correct order. This manual should be kept on a safe and dry place. In case of damage or loss the user may request a new copy of the manual from RAVAS.

## 2. Warning & Safety measures

When using the **iForks-52 (XT)**, please observe carefully 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 weightings or inaccurate scales.



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

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Netherlands  
Changes reserved.

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Email: [info@ravas.com](mailto:info@ravas.com)

## 2.1 Lithium Ion Battery

### Important Safety Information



#### DANGER

- Use the specific Li-ion charger and observe the specified charging conditions when charging the battery.
- Avoid influences of high temperature and keep away from fire.
- Do not deform, modify or disassemble the battery.
- Do not connect the (+) and (-) terminals with metal objects.
- Do not put the battery in (sea) water.
- Do not throw with the battery to avoid strong shocks.



#### WARNING

- When a battery leaks, the battery should directly be wrapped up properly and treated as recyclable resource.
- When, due to leaking from the battery, liquid gets into your eyes, immediately clean the affected area with water without rubbing your eyes, and seek medical advice immediately.
- The charging of the battery will be stopped automatically. When due to what cause the battery is not fully charged after 8 hours (LED of the charger doesn't become green), immediately unplug the battery from the holder to stop charging. Battery or charger does not work properly, exchange battery or charger.
- Storing and/or using the battery outside the given temperature range may have a negative effect on the lifetime and/or the performance of the battery.
- Do not longer use a battery with leakages, deformation or when any other abnormalities occur.
- Battery should be charged in a dry surrounding.



#### WARNING

Charging can be carried out at any time regardless of the amount of charge remaining, but you should fully charge the battery at the following moments:

- **The battery is not fully charged at the time of delivery!** The battery can be used after fully charging with the specific Li-ion charger. The LED on the battery charger will become green when fully charged. Note: Before using the weighing system, be sure that the battery is fully charged.
- After the battery has become completely empty. An empty battery will break (loss of capacity) when not directly fully charged.

## Specifications

Nominal voltage / capacity	BA-3.7V-5.2A: 5.2 Ah
Operating temperature range	During use: -10°C - +50°C During charging: 0°C - +40°C

## Operation

- **Normal charging**
  - Charging takes up to 6-7 hours for a full charge (a partially discharged battery will be fully charged sooner).
  - When the battery is fully charged, charger stops automatically.
  - After charging, the battery should be taken out of the charger.
- **Storing the battery**
  - When the weighing system is not used for a longer period, make sure the battery has approximately 70% of the battery capacity remaining. Take care not to let the battery become completely empty by charging it every 6 months.
  - Store the battery separated from the weighing system in an indoor place (approx. +10°C - +20°C) where it is not exposed to direct sunlight or rain.
- **Battery life**

The battery is a consumable item. The battery will gradually lose its capacity for charging after repeated use and after time has passed. If the operating time that the battery can be used becomes shorter and shorter, it has probably reached the end of its life.  
Note: For replacement or additional battery pack, contact your distributor.
- **About used batteries**

Lithium ion batteries are recyclable, valuable resources. For recycling of broken or used batteries, follow the local guidelines in your country. If you are not sure, please send back to the distributor for proper way of recycling.



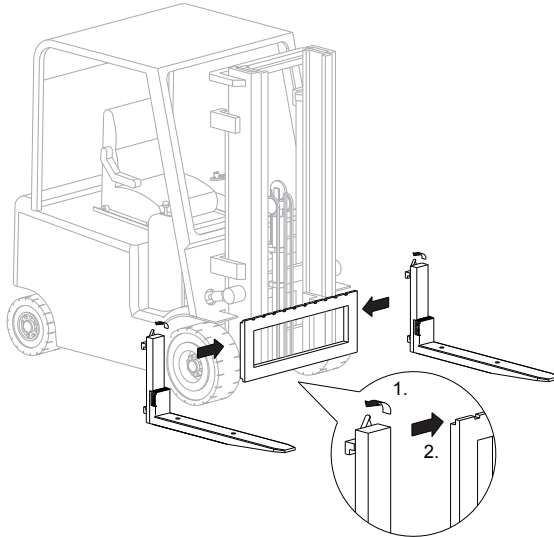
### Disposal information for countries outside the European Union

This symbol is only valid within the European Union. Follow local regulations when disposing used batteries. If you are not sure, consult the place of purchase or a RAVAS dealer.

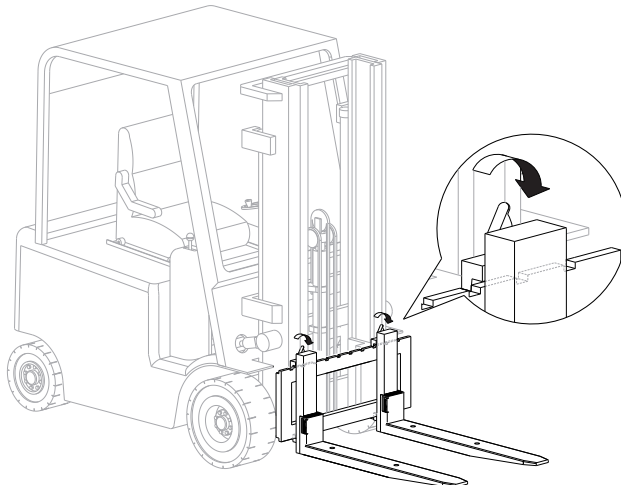
### 3. System setup

#### 3.1 Installing the **iForks-52 (XT)**

The standard forks must be taken off the carriage plate. The **iForks-52 (XT)** are placed on the carriage plate.



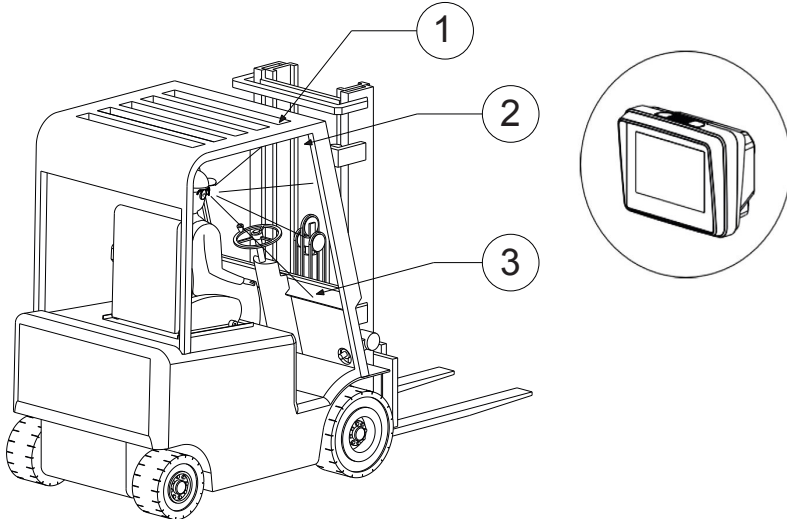
#### 3.2 Locking the **iForks-52 (XT)**



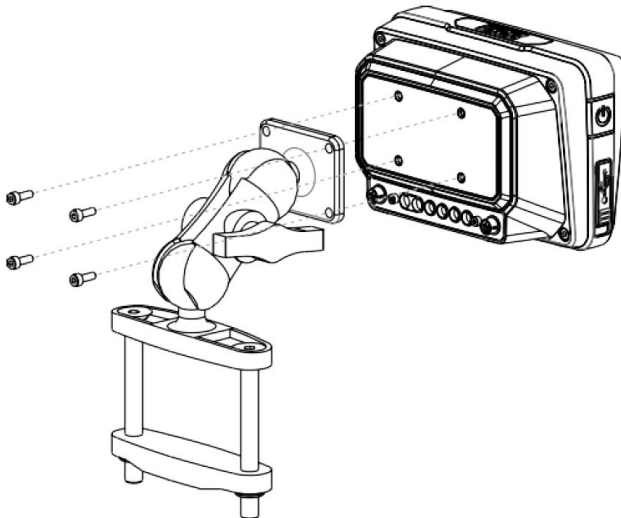
### 3.3 Installing the indicator

Find a suitable position for the indicator:

1. at the cabin's roof.
2. on the right side of the cabin, mounted onto a side-rail.
3. on the dashboard.



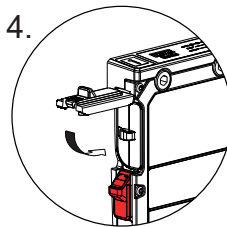
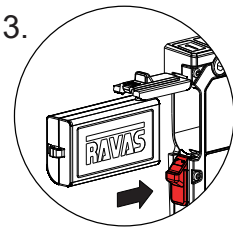
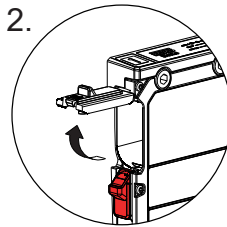
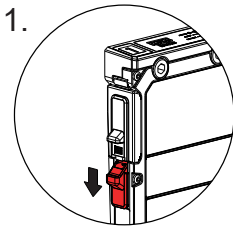
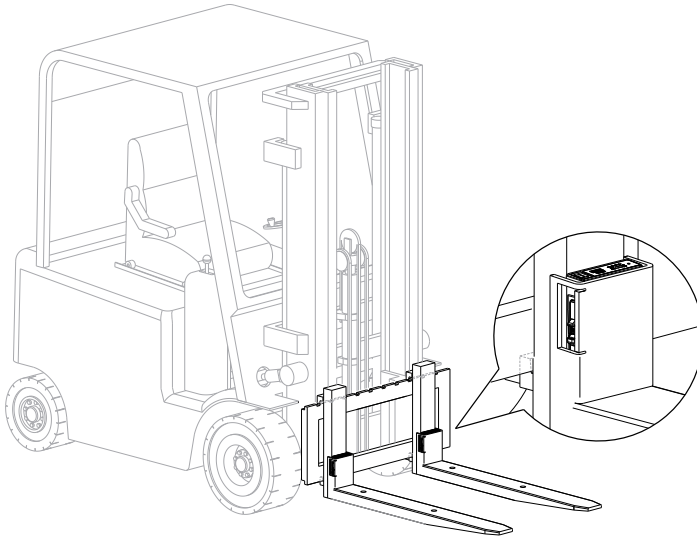
Installation of the indicator bracket & support.





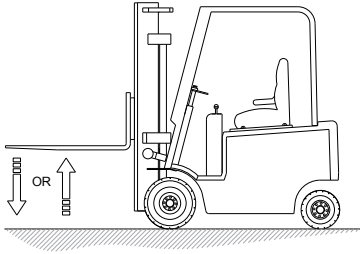
### 3.4 Placing the battery packs in the **iForks-52 (XT)**

1. Push the red locking clips down to unlock the battery holders.
2. Open the battery holders of both forks.
3. Position the battery packs in the battery holders of both forks until the red locking clip shifts up again.
4. Close the battery holders of both forks until you hear a “click”.



### 3.5 Connecting and switching on the **iForks-52 (XT)**

1



Switch on the **iForks-52 (XT)**:  
Move the **iForks-52 (XT)** quickly in upwards or downwards direction.

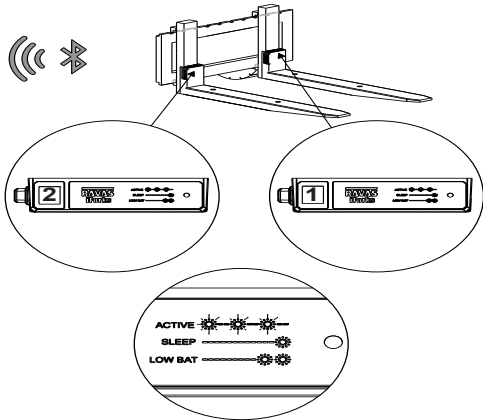
2

On/ Off  
switch



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

3



- The Bluetooth link between the indicator and the forks will connect automatically.
- The forks are 'ACTIVE' when the blue LEDs on both iForks (1 & 2) flash repeatedly.
- After 5 seconds all electronics are warmed up and you can start weighing.

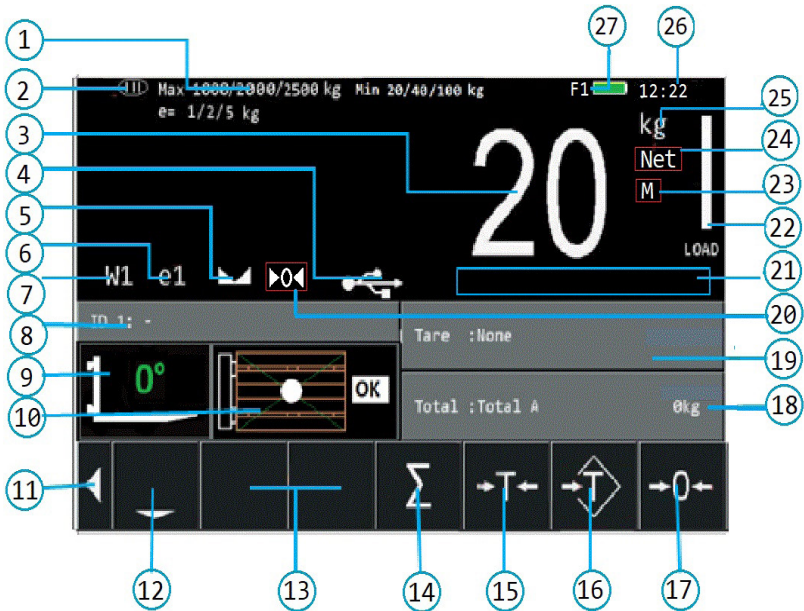
**NOTE:** When the forks are not powered on, the indicator will show the following text messages repeatedly: "Initializing..." and "Transmitters powered?".  
Make sure you have powered on the transmitter modules. Also check the batteries!

## 4. Use

### 4.1 Indicator functions



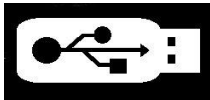
### 4.2 Display Functions



## 4.2 Display Functions

No.	Functionality / Description	Remark
1	Electronic typeplate	Shows the min., max. and divisions
2	Approved class III symbol	Only visible when OIML or NTEP approved
3	Weight display	For divisions <1 the decimal point is active
4	USB symbol <sup>*1</sup>	Only visible if USB connection is active
5	Stable weight symbol	Visible if weight is stable
6	Range pointer	Shows the active range
7	Scale pointer	Shows which scale is active (e.g. reference scale)
8	Identification code label	For more ID's click on this field
9	Mast tilting position	For OIML/NTEP this is limited (degrees become red)
10	Gravity pointer mass	Shows 'TIP' or 'SIDE' if gravity point is too far off
11	Show/hide function buttons	For bigger weight display choose 'hide'
12	Select next button row	Also used for going to the user mode
13	Empty button fields	For more functions see user menu
14	Summation button	For adding a weight to a total
15	Tare button	Tares out the present weight and returns NET weight
16	Preset tare button	Opens the preset tare input field
17	Zero button	Sets the present weight to zero (only for small deviations)
18	Total register label	For more totals click on this field
19	Tare code label	For more tare codes click on this field
20	Zero pointer	Only active if within zero range
21	Message line	Error messages are displayed here
22	Load bar	Indication of the present load on the scale
23	Memory active	Indication that a total memory is used
24	Net pointer	Only active if a net value is displayed
25	Units	KG or LB units are displayed here
26	Time	hh:mm
27	Battery status symbol	Displays the status of F1, F2 and indicator in a sequence

\*1: The USB icon is determined at powering up the indicator.



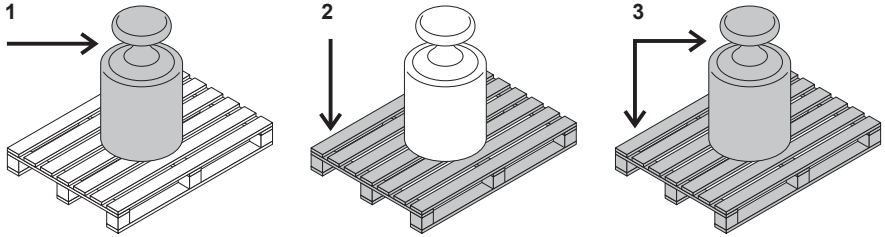
Powered up in 'DEVICE' mode. In this mode it is possible to read and write to a USB stick.



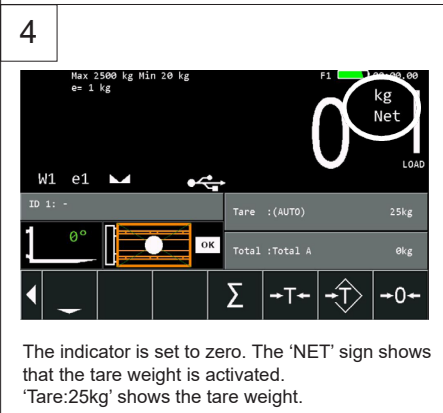
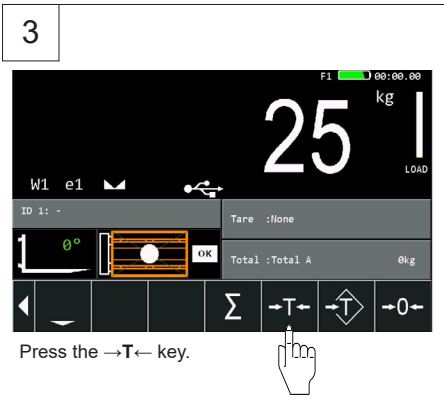
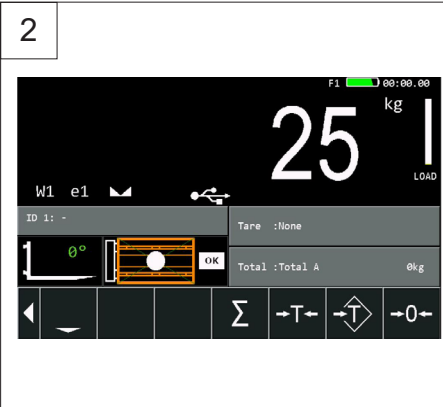
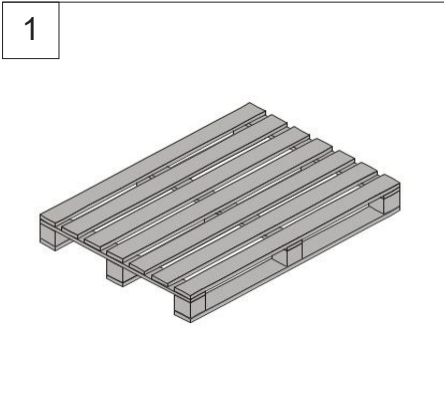
Powered up in 'HOST' mode. In this mode it is possible to update firmware via a PC connection (only for RAVAS technicians). If powered up in host mode it will stay in this mode until the indicator has been powered down again.

### 4.3 Net / Tare / Gross weight

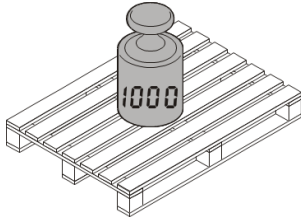
EXPLANATION:  $Net(1) + Tare(2) = Gross(3)$



#### 4.3.1 Net weighing: automatic tare



5

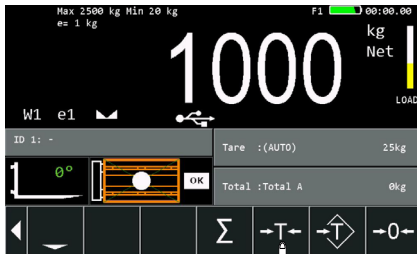


6



The display shows the net value of the load weight.

7



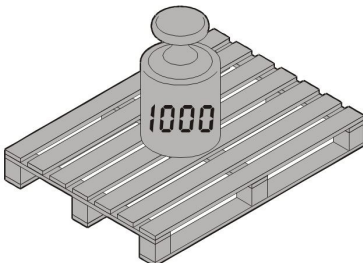
Press the →T← key.

8



The gross weight is displayed again.

9



**NOTE:** for OIML approved iForks-52 (XT) the tare will be erased automatically when the weight returns to gross zero! For the next weighing the tare must be activated again.

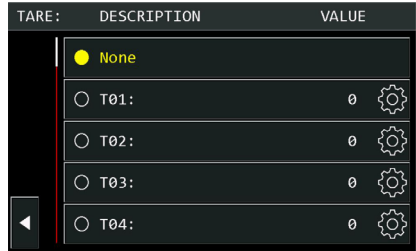
### 4.3.2 Net weighing: manual tare (PT)

1



Press the TARE field.

2



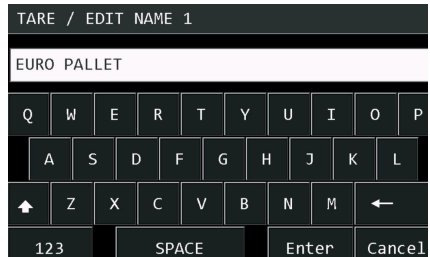
A pop-up screen appears. Select the desired Preset Tare field.

3



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

4



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

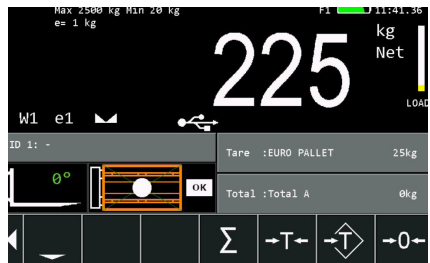
5



The 'NET' sign shows that the tare weight is activated. 'Tare: Euro pallet 25kg' shows the tare weight.

6

Pick up the load.



The indicator now shows the NET weight.

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

### 4.4.1 option 1

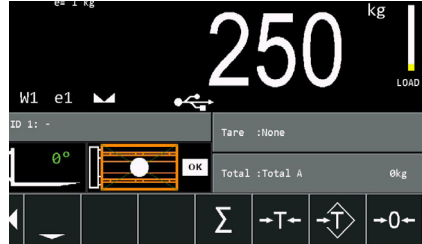
1



If a tare weight is active press the  $\rightarrow T \leftarrow$  key.



2



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

#### NOTE

For OIML approved iForks-52 (XT) the tare will be erased automatically when the weight returns to gross zero! For the next weighing the tare must be activated again.

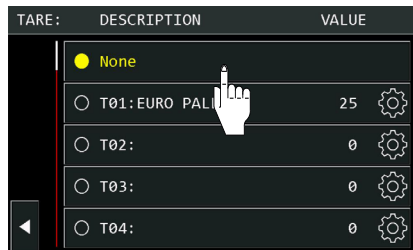
### 4.4.2 option 2

1



Press the preset tare button.

2



Select > none.



## 4.5 Activate and edit ID code

The RAVAS 5200 allows you to enter up to 4 ID codes which will be visible on the printout or when used with data communication.

1



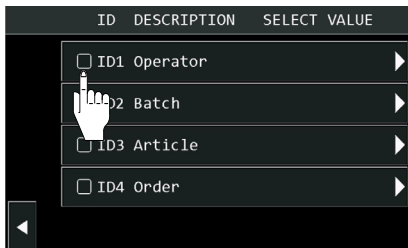
Press the 'ID 1' field.

2



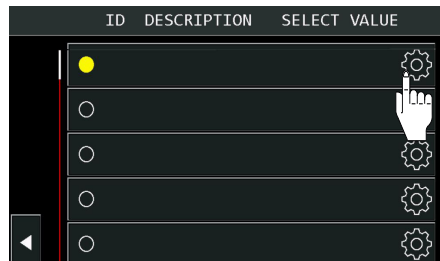
The ID field will show the 4 ID-codes.  
Press the ID field again.

3



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

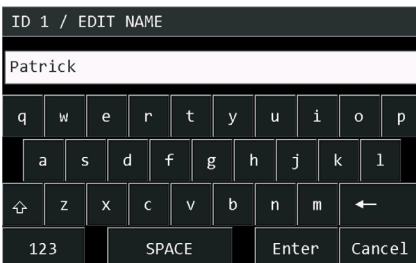
4



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.

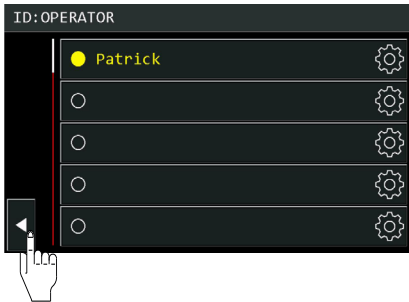
**Note:** they must be named first on a new system.  
To change a name, press the settings symbol.

5



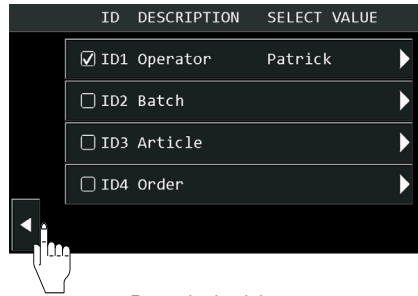
Enter ID code or name (max. 14 characters).

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



Only ID-1 will be shown. All codes will now be shown on the printout, or when transferring data.

8



For viewing the active codes in the display, repeat steps 1 and 2. Press the arrow left to return to the main screen (see step 6).

## 4.6 Adding, print, clear memory & send data

### 4.6.1 Add weight to subtotal

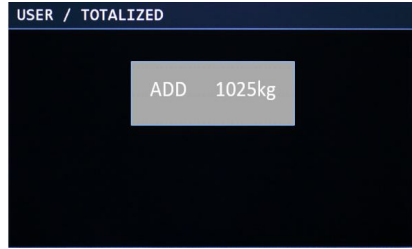
1



Load scale.

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

2



The weight is added.

3



The weight has been added to the selected total memory.

### 4.6.2 Change active total memory

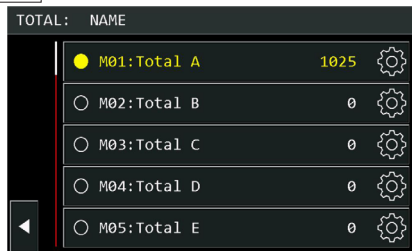
1

If preferred you can select a total memory.



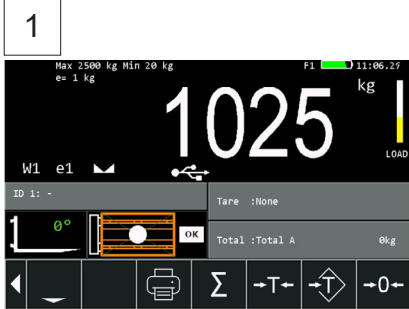
Press the total field.

2



Select your preferred total memory.

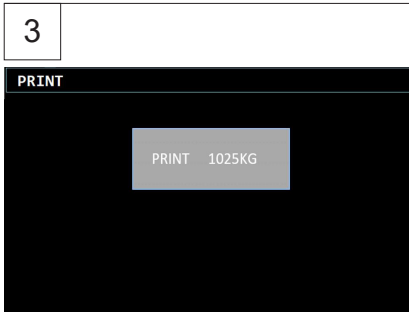
### 4.6.3 Print single weight



Load scale.



Press the printer key.



The indicator is now printing.

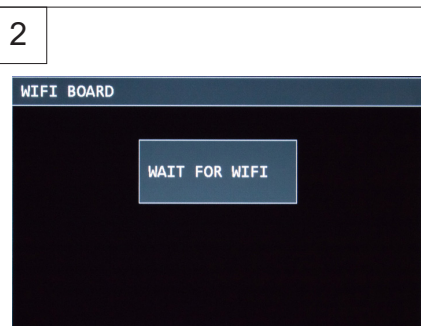


The weight is printed and the indicator is ready for the next weighing.

### 4.6.4 Send WiFi

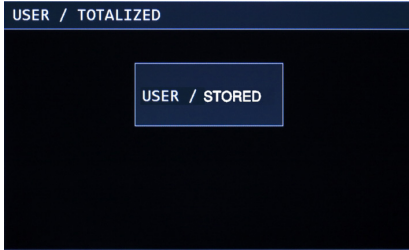


First a new weight must be on the display.  
Press the WiFi button.



The indicator is sending.

3



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

4



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

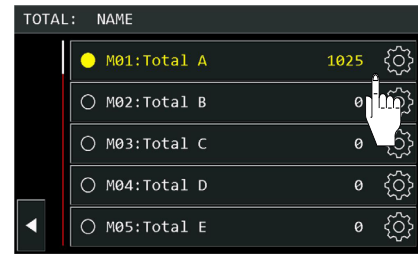
#### 4.6.5 Edit, clear and print total registers

1



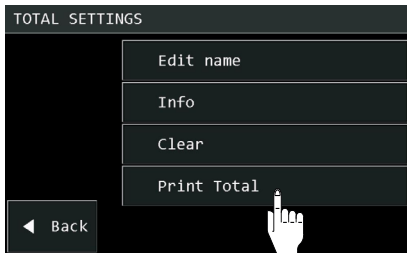
Press the total field.

2



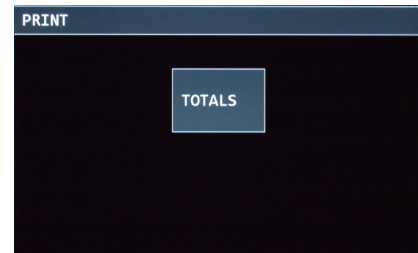
Select the total memory you want to print or clear and press the settings symbol.

3



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

4



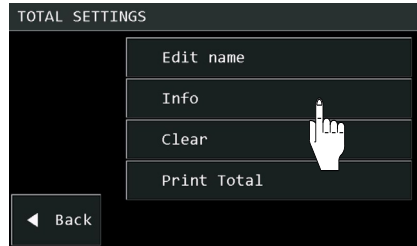
The indicator is printing your receipt.

5



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

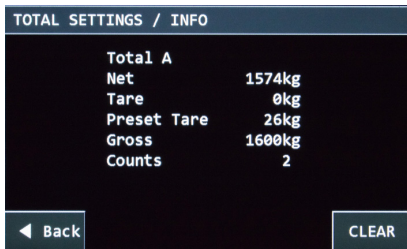
6



Get detailed information about the selected total register.

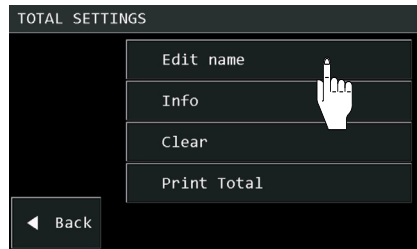
Press 'Info'.

7



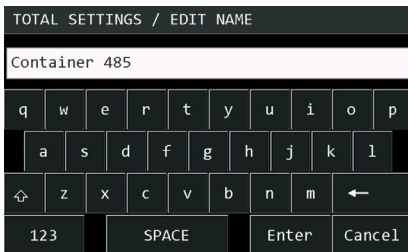
Press Clear if you wish to erase all information in this total register. Or go back if you don't wish to change the register.

8



Change the name of the selected total register.

9





You can edit the name (max. 14 characters), press 'Enter' if you are finished.

## 4.7 Piece counting


### 4.7.1 Activate piece count function

1 In case the piece counting symbol is not lit, piece counting is not activated.




Press the arrow down symbol.


2



The 'basic weight' symbol is green. This means that piece counting has not been activated.




3



Press the 'pcs symbol'. This symbol now turns green, to indicate that piece counting is activated.

4



The 'pcs'-symbol has turned green, to indicate that piece counting is activated.

The display will automatically return to the start screen.



#### NOTE

If a units toggle switch is activated in the menu bar, it will not be possible to use it in the piece counting mode. The toggle switch will be grey instead of white. Return back to the basic weighing mode if you want to use the units toggle switch.


## 4.7.2 Enter piece weight manually

1



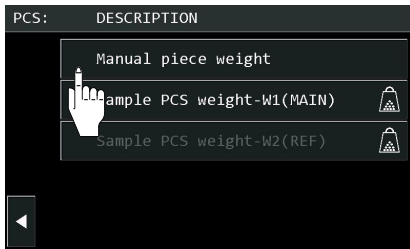
Activate piece counting by pressing the 'toggle weight / piece' symbol.

2

For entering the piece weight manually or calculating the weight via reference scale press  (piece counting)

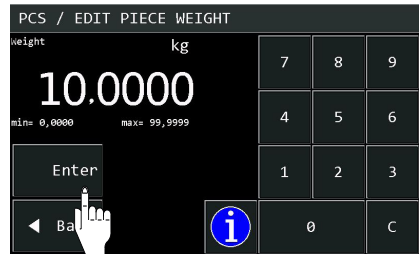


3



Select 'Manual piece weight'.

4



Enter the piece weight and confirm with Enter.

5



The weight per piece is now shown in the display.

6

Pick up load.



The number of pieces are shown in the display.



7



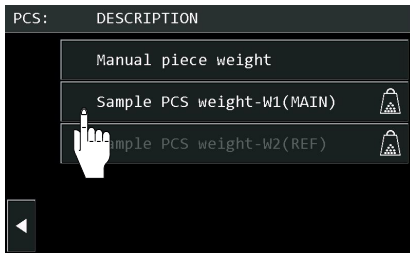
8



### 4.7.3 Calculate piece weight

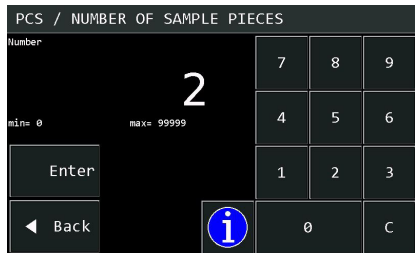
1

Repeat step 1 and 2 of chapter 4.7.1.



Select 'Sample PCS weight-W1(MAIN)'.

2



Enter the number of pieces that will be added or removed from the scale, e.g. 2. Confirm with 'Enter'.

Note: the weight difference should be at least 5 - 10 kg.

3



Add or remove the given number of pieces from the load. Then confirm with 'OK'.

4



Automatically the weight per piece is calculated (see in the display on the left).

## 4.8 Data storage on USB stick

1



After completing your weighings, press the  $\Sigma$  key to save all data on the indicator.

2



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

Before inserting the stick please read the notes written at 4.8.3!

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.

**NOTE:** The initialization of the USB port is always done at powering up the indicator.



If the USB icon is shown as a USB-stick, the USB port is defined as 'device'.



If the USB icon is shown as a USB-connection, the USB port is defined as host for PC connections. It will keep the setting until the system is powered off and on again.

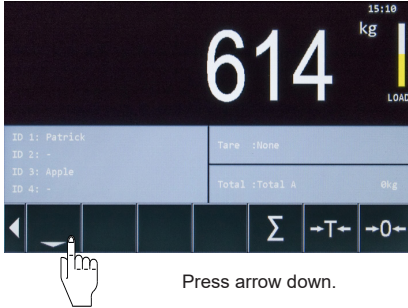
6

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

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

## 4.9 Change the time and date

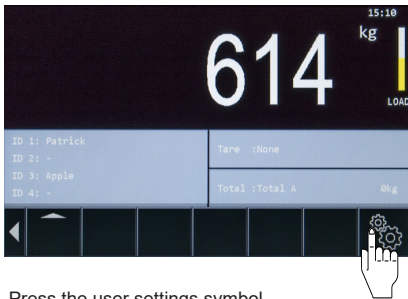
1



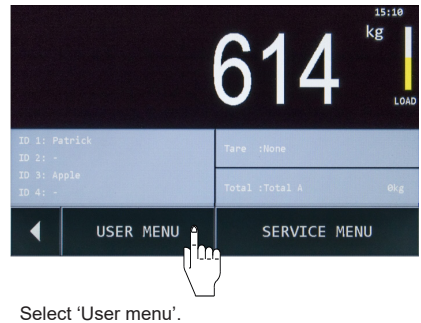
2



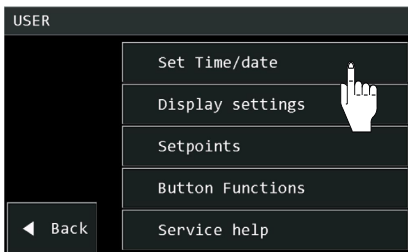
3



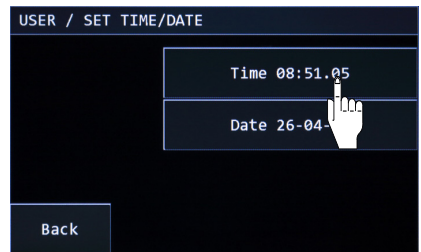
4



5



6



7



Enter the correct hour.

8



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

When you are finished, press 'Enter'.

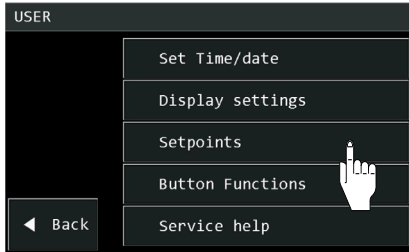
To return to the normal weighing mode, press the 'Back' button twice.

## 4.10 Enter setpoints

### 4.10.1 Enter setpoints for overload

1

Repeat step 1 - 4 of chapter 4.9.



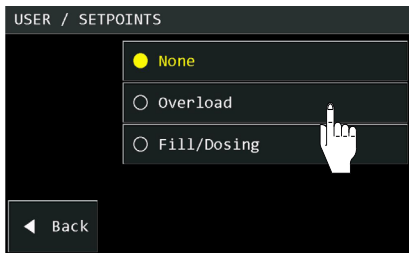
Go into the user menu. Select 'Setpoints'.

2



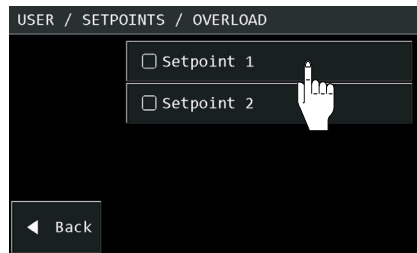
Enter password 123456, confirm with 'Enter'.

3



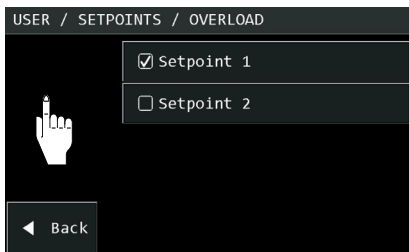
Standard none of the setpoints are set. Select 'Overload' to activate the setpoints in case of an overload situation.

4



For the overload signal you can activate 2 setpoints. Select a setpoint to set up the values.

5



The selected setpoint (1) is now marked.

Click on the space next to the text to see the different options per setpoint.

6



The options per setpoint are:

- Net/Gross
- Weight; to enter a predefined weight in kg
- Delay; see next page for more detail
- Password; option on/off only to secure the settings.

7



To set up conditions for the delay option select 'Delay'.

8

**NOTE:**

After you have defined the overload weight, you can use the option of delay to define the number of seconds the overload weight is shown on the display before any output signal becomes active.

For example, when you set the delay to 3 seconds, the overload signal becomes active after the overload weight has been displayed for 3 seconds.

9



Enter the number of seconds of the time of delay and confirm with Enter.

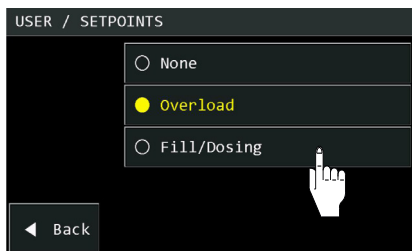
10



Press 'Back'.

### 5.13.1 Enter setpoints for filling/dosing

1



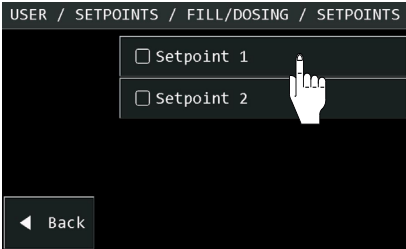
The setpoints for overload are entered. Select 'Fill/dosing' to enter these setpoints.

2



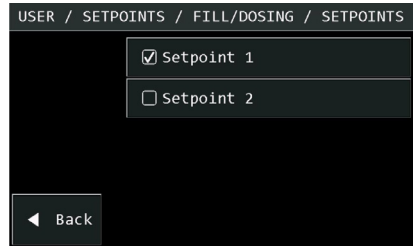
To automate the start and stop function of the fill/dosing you can set different values. E.g. the setpoints.

3



For the fill/dosing conditions you can activate 2 setpoints. Select a setpoint to set up the values.

4



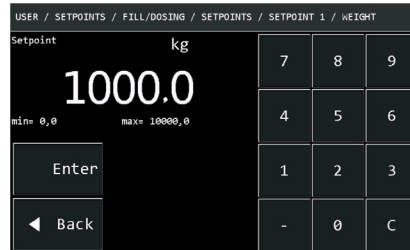
The selected setpoint (1) is now marked. Click on the space next to the text to reveal multiple options per setpoint.

5



You can choose for Net/Gross or enter a predefined weight. Select 'Weight' to do that.

6



Enter the number of kilograms and confirm with Enter.

























7



For setpoint 2 you can choose from the same values.

## 4.11 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



## 4.12 Change button functions & positions

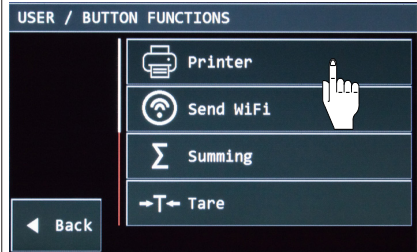
### 4.12.1 Change button function

1



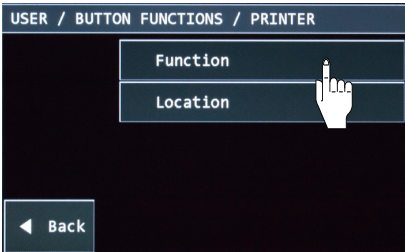
Go into the user menu. Select Button Functions.

2



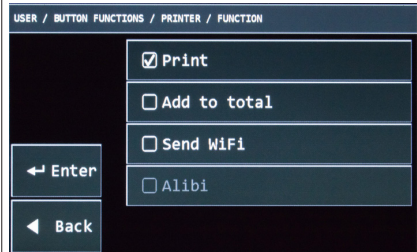
Select the button you wish to change. For this example we take the print button.

3



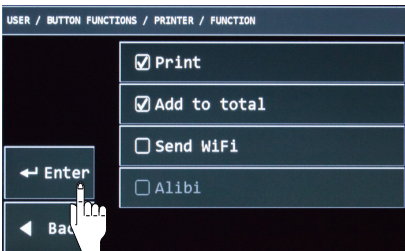
Select Function.

4



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

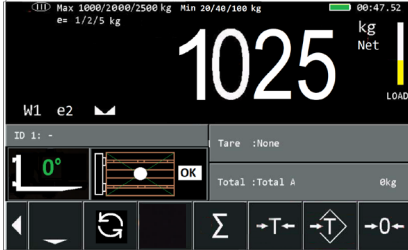
5



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

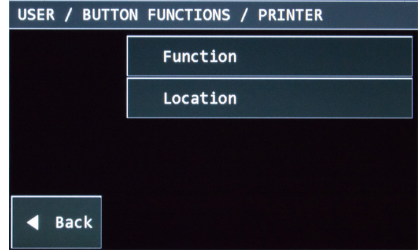
## 4.12.2 Change button position

1



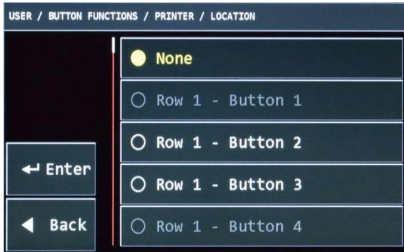
You can also change the location of the buttons. To hide buttons that are not used and get frequently used buttons to a better location.

2



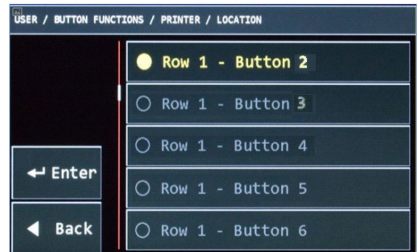
Go to button functions in the user menu. Select the button you wish to move. Printer button for this example.

3



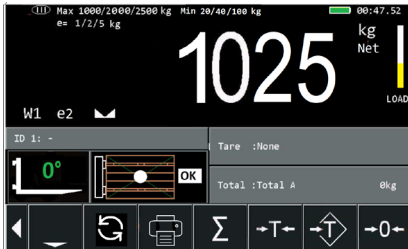
If a button is not in use, because in this example the printer is installed after delivery. The default location is None.

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.

## 4.13 Show/hide buttons on startup

1



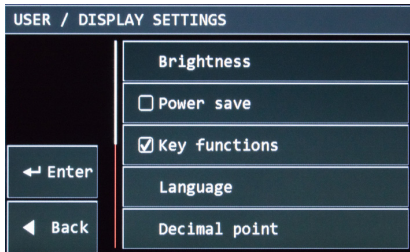
Default on start-up the buttons are always present at the bottom of the display. By pressing on the '<' they can be hidden. But the next time you switch on the indicator they are back. Follow the following steps if you wish to always hide the buttons.

2



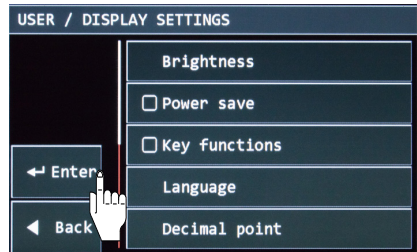
Go into the user menu. Select 'Display settings'.

3



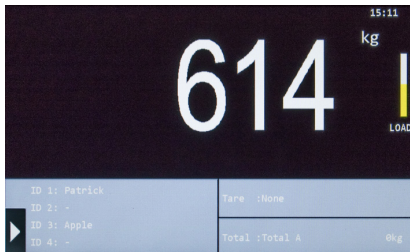
The checkbox for 'Key Functions' is checked, meaning the buttons are always present.

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 '>'.>

## 4.14 Debug mode for user

The 5200 indicator has the possibility to check the input values of the load cells and the angle position of the iForks. Also it is possible to check the Bluetooth communication between the indicator and the iForks. This could be helpful information in case of connection problems.

1



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

2



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

3



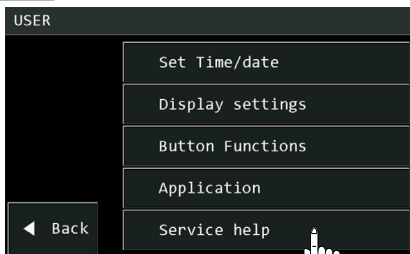
Press the user settings symbol.

4



Select 'User menu'.

5



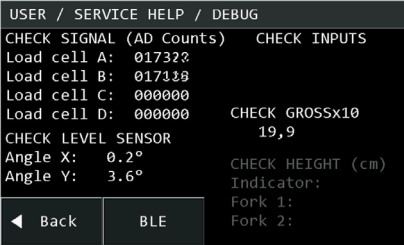
Select 'Service help'.

6



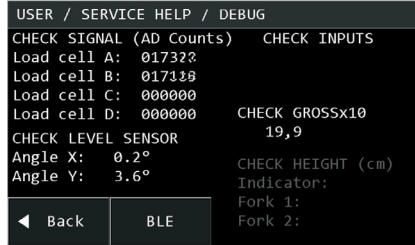
Press 'Debug'.

7



Check the load cell signals [AD-counts] and the level sensor [grades].

8



Press 'BLE'.

9

USER / SERVICE HELP / DEBUG/BLE

BLE ID	iFork1673DE1 F1	iFork000000 F2
Samples Sent	54991	0
Samples Missed	126	0
Samples Double	0	0
Samples Relayed	0	0
Long Outages	0	0
Short Outages	1	0
Lowest RSSI	-88	0
Highest RSSI	-50	0
Average RSSI	-52	0
Channel Used	4	0

◀ Back      REFRESH      Clear

This table shows you all information regarding the Bluetooth connection.

- Press 'REFRESH' to get an updated table.
- Press 'Clear' to reset all values in the table to [0].
- Press 'BACK' to return to the previous screen.

### Note:

After each refresh the channels will differ because the Bluetooth is continuously hopping to another channel to maintain the best possible connection.

## 4.15 Alibi memory

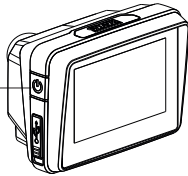
The 5200 indicator has the possibility of an alibi memory. The indicator stores every weighing in its alibi memory and adds a unique number to it.

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.

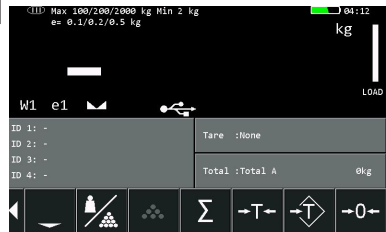
1

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.



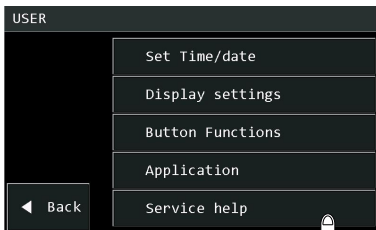
4



Now press 'User Menu'.



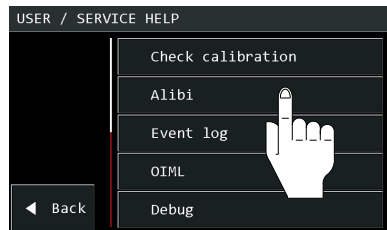
5



Press 'Service Help'.



6



Press 'Alibi'.

7



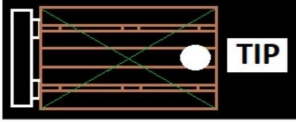
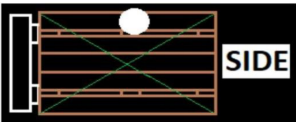
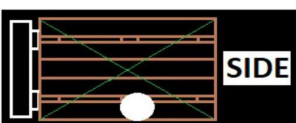
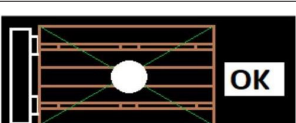
The information of the last weighing is shown on the display.

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

## 5. Warnings and error messages

### 5.1 Tip and side load warnings

The 5200 indicator has some practical safety warnings to help the driver pick up loads safely and prevent accidents. The tip and side load warnings are mentioned in a special pictogram in the left lower corner of the screen. The explanation is as follows:

 <p><b>TIP</b></p>	<p><b>Tip Load</b> the center of gravity of the present load on the scale is concentrated too much on the tip of the forks. Try to replace the load or try picking it up from the other side. It is always better to have the center of gravity more towards the truck side than towards the tip side of the forks.</p>
 <p><b>SIDE</b></p>	<p><b>Side Load</b> the center of gravity of the present load on the scale is concentrated too much on the left side of the forks. Try to replace the load or try picking it up from another side. It is always better to have the center of gravity more towards the truck side than towards the left (or right) side of the forks.</p>
 <p><b>SIDE</b></p>	<p><b>Side Load</b> the center of gravity of the present load on the scale is concentrated too much on the right side of the forks. Try to replace the load or try picking it up from another side. It is always better to have the center of gravity more towards the truck side than towards right (or left) side of the forks.</p>
 <p><b>OK</b></p>	<p><b>Side Load</b> the center of gravity of the present load on the scale is correct.</p>



## 5.2 Mast position

To get a better idea of the horizontal position of the forks, the 5200 indicator shows a picture of the forks with an angle. This will help the driver to place pallets into a rack more safely. The explanation is as follows:



### **Tilted mast backward is 5°**

In case the angle is mentioned in red, it means that you have a legal for trade unit and therefore you are limited in displaying and using the weight for printing and/or transmissions. In that case the weight will not be displayed unless you tilt the mast the opposite direction within the boundaries of the limits.



### **Tilted mast forward is 5°**

In case the angle is mentioned in red, it means that you have a legal for trade unit and therefore you are limited in displaying and using the weight for printing and/or transmissions. In that case the weight will not be displayed unless you tilt the mast the opposite direction within the boundaries of the limits.



### **Mast is horizontal**

This is the perfect position for accurate weight readings and also for placing the goods in a rack.

## 5.3 Error messages

Error messages will be displayed in the message line (21).

Error message	Solution
Weight not stable	Weight needs to be stable to perform this action.
Forks overloaded	Remove weight from the forks.
Not allowed	The performed action is not allowed due to restrictions.
Out of zero range	Make sure the truck is unloaded while setting a new zero.
Load cell overloaded	Use other capacity load cells or load cells with less signal.
Negative weight	The signal at this calibration point is lower than expected. Increase the weight.
Signal too low	Not enough signal difference to make a reliable calculation.
Cal. point too low	Make sure this calibration point is higher than previous one.
Bad calibration	No calibration has been saved. Perform a new calibration.
Charge battery F1!	Battery of fork module 1 is critically low and needs to be charged. You will risk losing data or not being able to perform a weighing if ignored.
Charge battery F2!	Battery of fork module 2 is critically low and needs to be charged. You will risk losing data or not being able to perform a weighing if ignored.
Charge battery Ind.!	Battery of indicator is critically low and needs to be charged. You will risk losing data or not being able to perform a weighing if ignored.
No signal F1	No communication possible between fork module 1 and indicator because of signal loss.
No signal F2	No communication possible between fork module 2 and indicator because of signal loss.
Bad signal F1	Try to improve communication by replacing the indicator or shifting fork 1.
Bad signal F2	Try to improve communication by replacing the indicator or shifting fork 2.
Not level	Forks are tilted too far to get an accurate reading. Make sure the mast of the truck is within vertical tolerance.
OIML not allowed	Performed action is not allowed because of OIML restrictions.
NTEP not allowed	Performed action is not allowed because of NTEP restrictions.
OIML Cal. locked	Calibration or parameter settings are locked due to OIML restrictions. Contact your dealer/supplier.
NTEP Cal. locked	Calibration or parameter settings are locked due to NTEP restrictions. Contact your dealer/supplier.
Low battery indicator	Warning that the battery of the indicator is running low. You might consider charging the battery.
Low battery F1	Warning that the battery of fork module 1 is running low. You might consider charging the battery.
Low battery F2	Warning that the battery of fork module 2 is running low. You might consider charging the battery.
Load not centered	Centre point of gravity of the load is too far off which could cause dangerous situations and inaccurate readings. Replace the load in opposite position of the gravity point.

<b>Error message</b>	<b>Solution</b>
Transmission error Database full	No ACK received from RDC application or other communication failure. Database for saving RDC weighing is full. Go to a point where the WLAN connection is guaranteed to be able to delete the saved weighing and empty the database. If the RDC application is not used, change the setting in the user menu.
Underload	Negative gross load. Lift the forks from the floor.
FRAM error	There is an error with the FRAM. Contact your dealer/supplier.
Only in default units	The action performed is not allowed during the units switch mode. Tap on the button 'units switch' first or wait until the units switch back to the original units automatically (after 3 seconds).
Configuration error	There is a problem with the configuration of the hardware. Most likely to happen after a spare part replacement. Contact your dealer/supplier.
Wrong firmware F1	The software in the fork module 1 is not in correspondence with the firmware release of the indicator. Contact your dealer/supplier.
Wrong firmware F2	The software in the fork module 2 is not in correspondence with the firmware release of the indicator. Contact your dealer/supplier.
Height sensor error	The output of the height sensor of the fork modules differ too much. Contact your dealer/supplier.
G-sensor error	The output of the G-sensor of the fork modules differ too much. Contact your dealer/supplier.
Data mismatch	The Master module receives corrupted data. Contact your supplier/ dealer.
Invalid TAC code	The TAC code entered is incorrect.
Invalid CAL code	The CAL code entered is incorrect.
Retry	Incorrect backup restore action or calibration action.
Tare already active	There is already a tare value active. Delete the old tare first.
Preset tare invalid	The preset tare value entered is not valid.
Invalid input	The input is not valid.
Calibration error	Something is wrong in the calibration. Perform a new calibration after doing a reset.
Ind. power too low!	Indicator power is so low that proper functioning of the system is no longer guaranteed. The system will automatically switch off after 10 seconds.
Reset	Reboot or reset is being performed.
BLT-Master Connect Failed 2011	Bluetooth master module not installed or defect.

## 6. Maintenance

The maintenance guidelines for normal forks apply to the forks of the mobile weighing system.

### Main guidelines:

- The weighing system meets up to the protection class IP65. This means that dust or moisture (rain or water beam from all sides), will not influence the operation of the electronics. However, high-pressure cleansing in combination with warm water or chemical cleansers will lead to the entry of moisture and therefore negatively influence the operation of the system.
- Only specialists may undertake any welding. This is to avoid damage to electronics and load cells.
- All safety regulations that apply to the forklift 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;
- 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 the forklift truck and ask the supplier when in doubt;
- RAVAS is not responsible for errors that occur due to incorrect weighing or inaccurate scales.

## 7. RAVAS WeightsApp

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.

In addition the app makes it possible to download a log file from the RAVAS indicator and send it for technical analysis as a CSV file in the event of malfunctioning.

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).