

# USER MANUAL

# **RAVAS** indicator 520

used for:

RPW RWV RPW-EL/ST RWB



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.ravasusa.com

Rev. 20250114

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If y	EASE RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE you have any queries concerning the duration and terms of the guarantee, please contact ur supplier. We would also refer you to our General Sale and Supply Conditions, which are ailable on request.
the in	e manufacturer accepts no liability for any damage or injury caused by failure to follow ese instructions, or from negligent operation or assembly, even if this is not expressly stated this instruction manual.
diff tre	light of our policy of continuous improvement, it is possible that details of the product may fer from those described in this manual. For this reason, these instructions should only be ated as guidelines for the installation of the relevant product. This manual has been comed with all due care, but the manufacturer cannot be held responsible for any consequences

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#### 1. Introduction

This manual describes the use of the RAVAS indicator 520. 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.

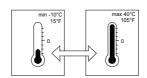
# 2. Warning & Safety measures

When using the RAVAS indicator 520, 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:
- 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 and maintenance instructions of the 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: Phone:

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# 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 get broken (loss of capacity) when not directly fully charged.

# Specifications

Nominal voltage / capacity	BA-14.8V-5A: 5 Ah (used for hand pallet trucks)
Operating temperature range	During use: 14°F - +122°F During charging: 32°FC - +104°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. +50°F +68°F) 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 sent 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 startup

## 3.1 Switching on/off the indicator 520



After 5 seconds all electronics are warmed up and you can start weighing.

# 4. Power supply

Depending on your system, the power supply for the indicator 520 can either come from the truck battery or from an exchangeable Li-ion battery pack.

# 4.1 Low battery indication indicator 520

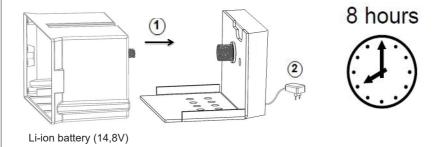
When the voltage level of the exchangeable battery pack is running low, the battery indicator will turn from green to yellow (1). The note 'LOW POWER' appears on the display (2). The **indicator 520** will switch off automatically after 2 minutes.



## 4.2 Charging the battery pack of the indicator 520

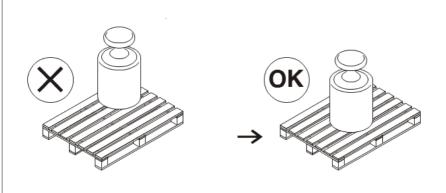
When the system is equipped with a rechargeable battery pack, a smart charger is included. After charging for at least 8 hours, the charger will shut off when the battery pack is completely full. The red LED on the adapter will change to green once the battery is fully charged.

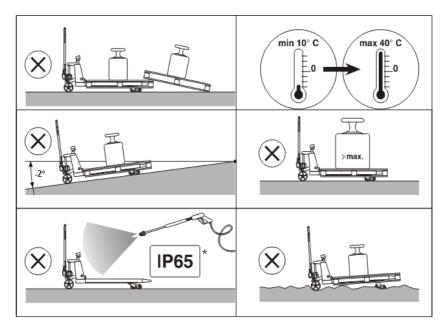
First position the battery pack inside the charger module (1), then plug the adaptor into the mains voltage (2).



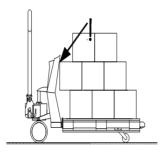
# 5. Use

# 5.1 Use (accurate weighing)

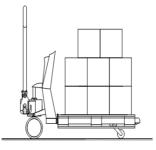




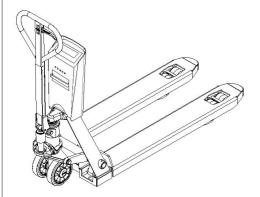
\* excl.



Wrong way of lifting the load



Correct way of lifting the load



# Check the zero reading before each weighing!

Before each weighing it is necessary to check whether the system is unloaded and free.

If the indicator does not determine the zero point automatically, it must be done manually using the >0< key.

#### 5.2 Indicator functions



# 5.3 Display Functions

kgDisplay shows weight in kilogramsIbDisplay shows weight in poundsNETDisplay shows net weightTAREDisplay shows tare weight

M Display shows subtotal memory active

**Zero out of range**Make sure the truck is unloaded while setting a new zero

Out of level Make sure the pallet truck is horizontal

**Bad calibration** No calibration has been saved

## 5.4 Error messages

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

Error: Out of level
 Level switch measures scale is sevral degrees
 out of level.



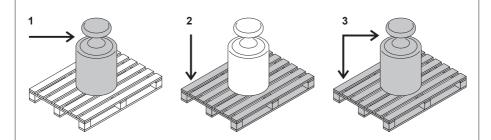
2. Overload

The system has been overloaded according to its Q-max.

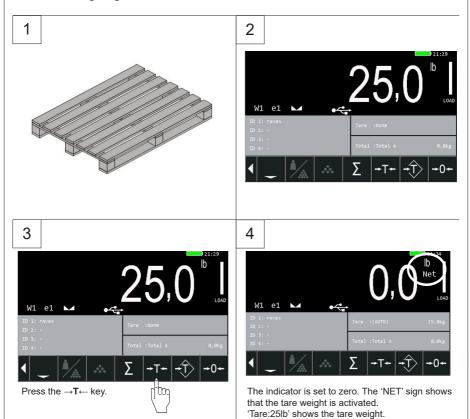


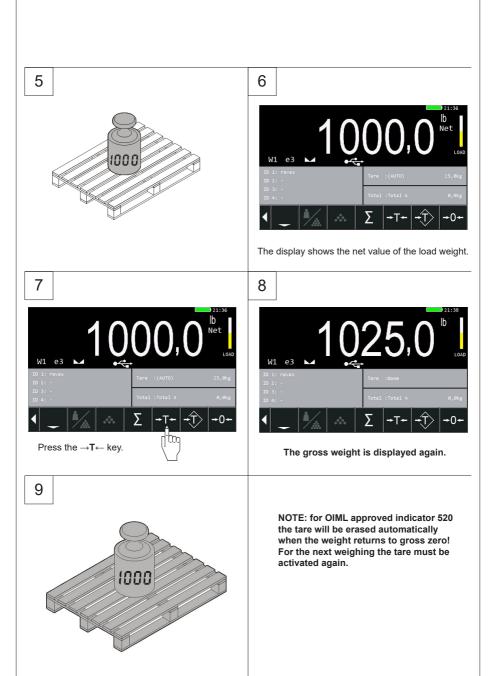
## 5.5 Net / Tare / Gross weight

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



## 5.5.1 Net weighing: automatic tare





## 5.5.2 Net weighing: manual tare (PT)



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.

5



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

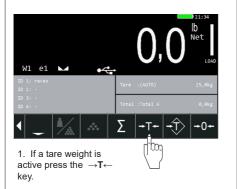
6 Pick up the load.



The indicator now shows the NET weight.

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

## 5.6.1 option 1





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 RAVAS indicator 520 the tare will be erased automatically when the weight returns to gross zero! For the next weighing the tare must be activated again.

#### 5.6.2 option 2

1. Press the preset tare button.



2. Select > none.



## 5.7 Activate and edit ID code

The indicator 520 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.



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.



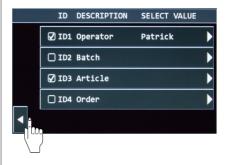
4. Enter ID code or name.



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



Press the back button to return to the weighing mode.



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

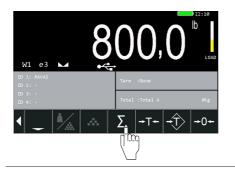


## 5.8 Adding, print, clear memory & send data

## 5.8.1 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.

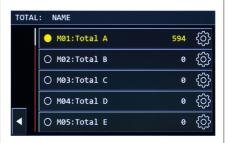


# 5.8.2 Change active total memory

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



2. Select your preferred total memory.



## 5.8.3 Print single weight

1. Load scale



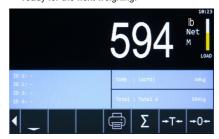
2. Press the printer key.



3. The indicator is now printing.



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



#### 5.8.4 Send WiFi

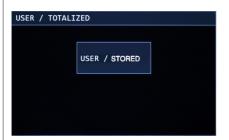
1. First a new weight must be on the display. Press the WiFi button.



2. The indicator is sending.



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



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

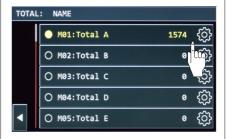


#### 5.8.5 Edit, clear and print total registers

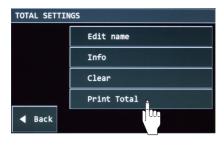
1. Press the total field.



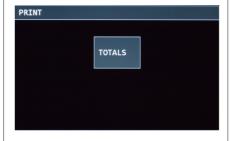
Select the total memory you want to print or clear and press the settings symbol.



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



4. The indicator is printing your receipt.

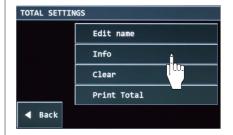


5. If you want to reset the active total memory after printing, press 'OK'.



6. Get detailed information about the selected total register.

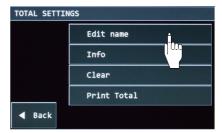
Press 'Info'.



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



8. Change the name of the selected total register.

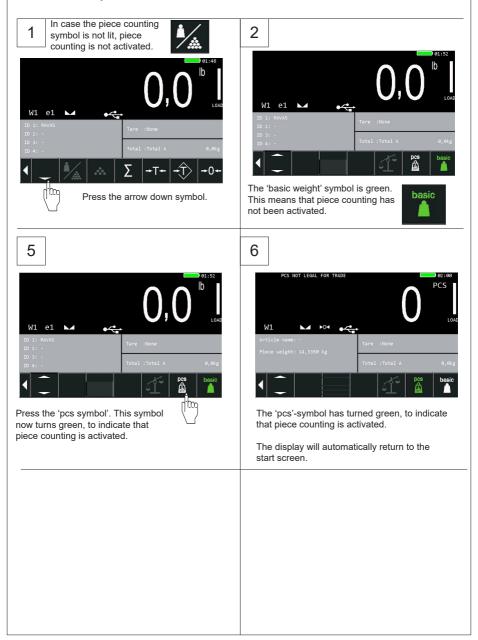


You can edit the name, press 'Enter' if you are finished.



## 5.9 Piece counting

## 5.9.1 Activate piece count function



## 5.9.2 Enter piece weight manually



Activate piece counting by pressing the 'toggle weight /

piece' symbol.

For entering the piece weight manually or 2 calculating the weigth via reference scale (piece counting)

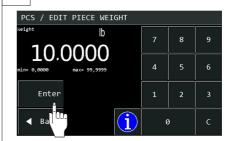


3



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.





The total weight is shown in the display.

#### 5.9.3 Calculate piece weight

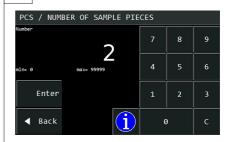
1 Repeat step 1 and 2 of chapter 5.9.1.



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

2

8



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 10-20 lb.

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).

## 5.10 Data storage on USB stick

1



After completing your weighings, press the  $\to \Sigma \leftarrow$  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 5.10.3!

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.

6

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RAVAS WLAN connector .NET tool-20161... 12-1

Ravas5200 USB 12-1

Storage 6-5WLANConnector 7-4-

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

## 5.11 Change 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 '.'

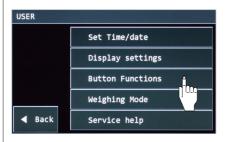
When you are finished, press 'Enter'.



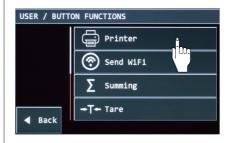
## 5.12 Change button functions & positions

## 5.12.1 Change button function

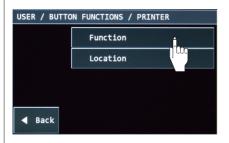
1. Go into the user menu. Select Button Functions.



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



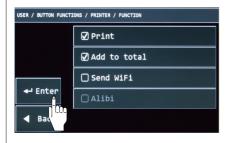
3. Select Function.



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.

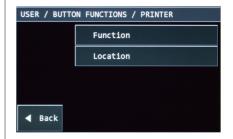


#### 5.12.2 Change button position

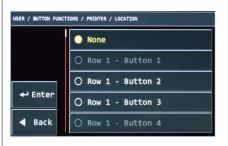
You can also change the location of the buttons.
 To hide buttons that are not used and get frequently used buttons to a better location.



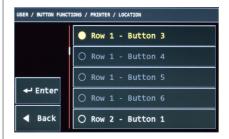
Go to button functions in the user menu. Select the button you wish to move. Printer button for this example.



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



 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.

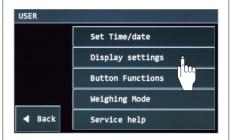


## 5.13 Show/hide buttons on startup

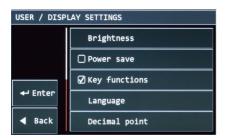
 Default on start-up the buttons are always present at the bottom of the display. By pressing on the '<' they can be hidden. But the next time you switch on the indicator they are back. Follow the following steps if you wish to always hide the buttons.



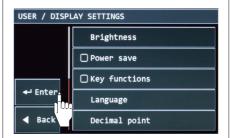
Go into the user menu. Select 'Display settings'.



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 '>'.

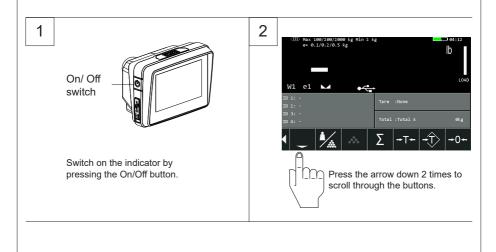


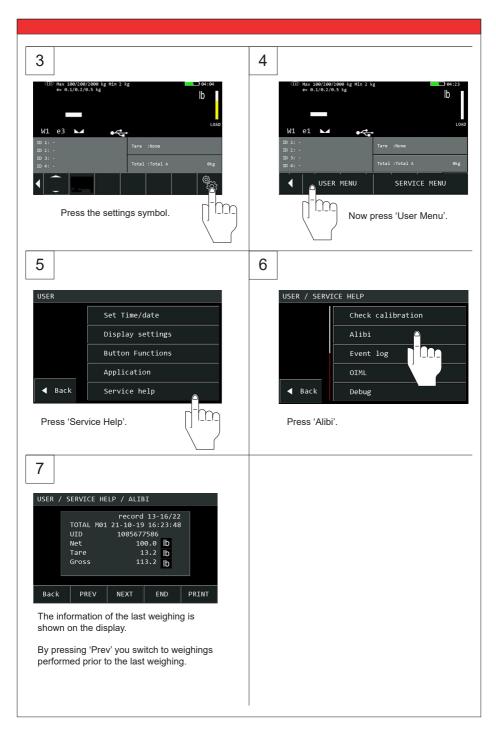
## 5.14 Alibi memory

The 520 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:

- 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.
- UID Code / Alibi number > this is a 10 digit number which is generated by the indicator itself.





# 6. The RAVAS Indicator App

The RAVAS Indicator App is designed for efficient data collection from RAVAS weighing systems. Whether used as a stand-alone solution or integrated with RAVAS RDC software, the Indicator App offers flexible integration to suit your operational needs. By streamlining weighing and labeling processes, it helps you save time and reduce errors, boosting overall productivity.



#### Standard version:

#### Mobile data collection

Capture and store all weighing data directly on your mobile device for easy management on the go.

#### ► Comprehensive data logging

Record all weighing data, including date and time, for precise tracking and reporting.

#### ► Seamless data transfer

Quickly send data to a PC via email using wireless connectivity for efficient communication.

#### Full version:

#### ► Real-time QR code display

Display weight data as a QR code for instant access and sharing.

#### ► Custom label printing

Print customized labels with added fields and text for enhanced labeling options.

The standard version of the RAVAS Indicator App with limited functionalities can be downloaded for free from Google Play.

The full version is available through RAVAS for a 1-year or 5-year license period.



