

LP-5000

INDICATOR & LABELLER

TECHNICAL MANUAL



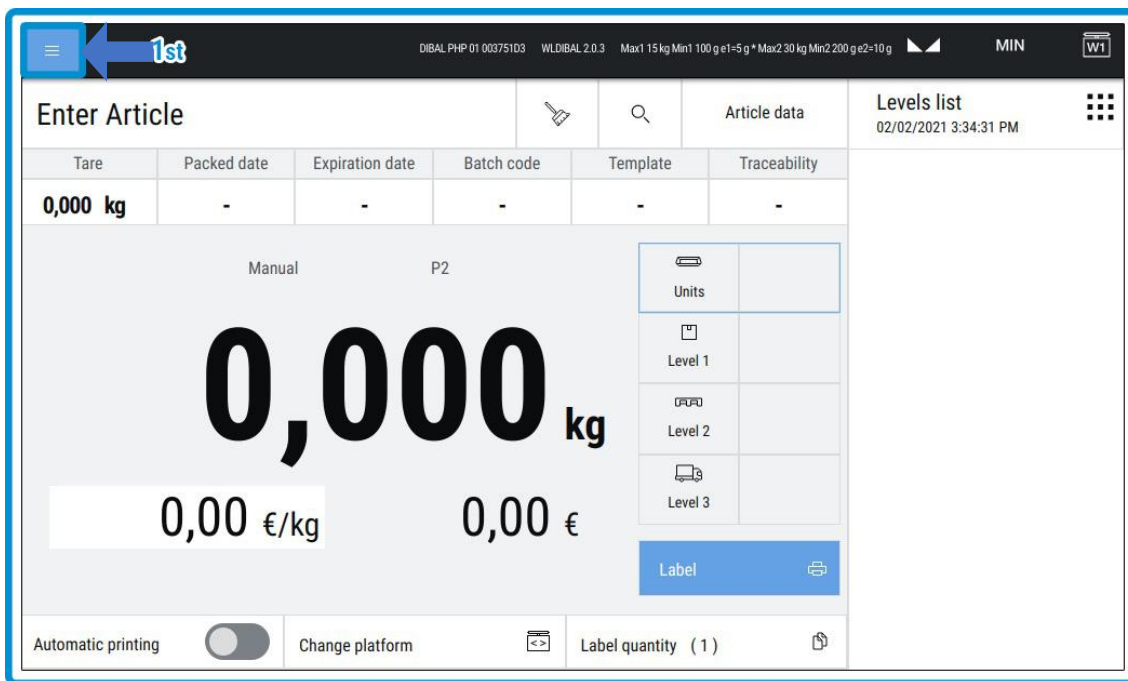
INDEX

1. Test mode and settings (Technical)	3
1.1 General	5
1.2 Platform selection 1 and 2	8
1.2.1 General configuration	8
1.2.2 Setup configuration	9
1.2.3 Weight adjustment	12
1.2.4 Set tare	17
1.2.5 Remove tare	19
1.2.6 Zero	20
1.3 Printers	21
1.3.1 General	23
1.3.2 Sensors	29
1.3.3 Communication	31
1.3.4 Sending of Printing Fonts	32
1.3.5 Sending of printing images	34
1.3.6 Loading firmware printer	37
1.3.7 Setting of Multiple Printers	41
1.4 Initialization	50
1.4.1 Force data initialization	51
1.4.2 Force files initialization	51
1.5 Versions	52
1.6 Exit application	53
2. LP-5000 Update	55
2.1 Software update	55
2.1.1 Change of IP address of LP-5000	55
2.1.2 File transfer	55
2.1.3 Update	58
2.2 UPLOAD PRINTER FIRMWARE	59
2.2.1 File transfer	59
2.2.2 Update in LP-5000	59

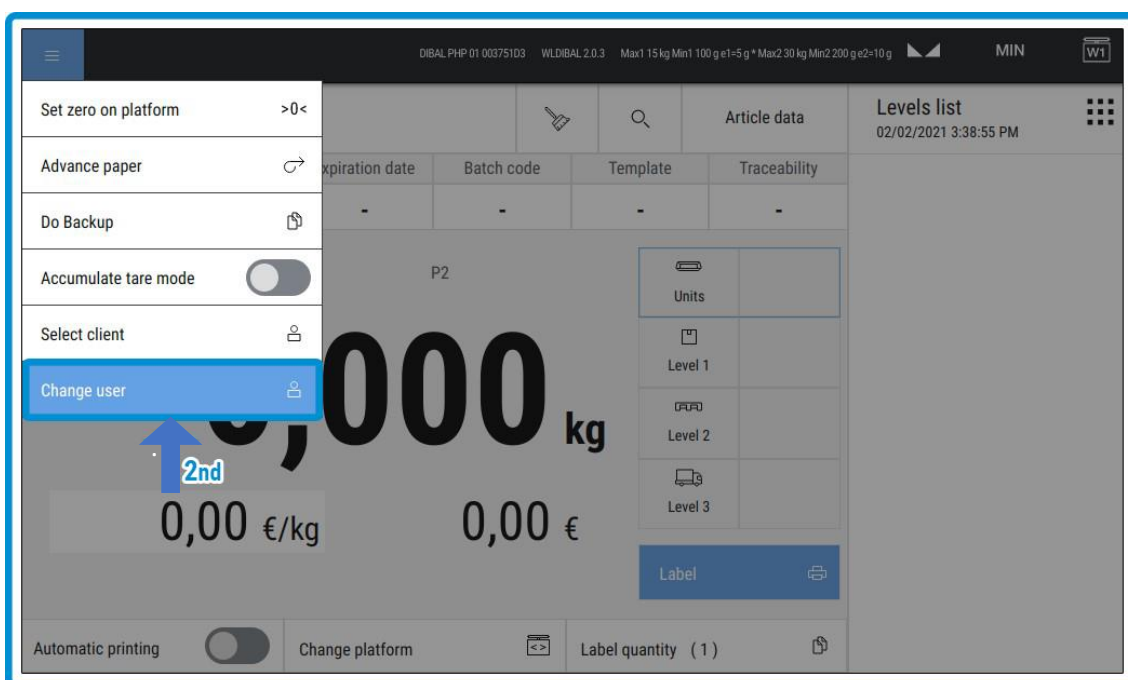
1. Test mode and settings (Technical)

In the working mode test and adjustments of the labeller (user TECH) it is possible to carry out the functional check or calibration of different elements of the labeller: adjustment of weight, calibration of the printer, verification of the different versions of software, hardware, etc.

To access from the working operating menu, click on the blue box in the upper left corner.



Click on "Change User".



Enter the "tech" username and the "tech" password.

The screenshot shows a 'Welcome / Login' window with a dark blue header. Below the header is a circular icon containing a person silhouette and a key. There are two input fields: 'Username' and 'Password'. A blue arrow labeled '1st' points to the 'Username' field, and another blue arrow labeled '2nd' points to the 'Password' field. Below the fields is a blue 'Login' button with a right-pointing arrow icon. In the bottom right corner of the window, there is a blue 'Return' button.

Click on "Login" to access the technical menu of test and settings.

This screenshot shows the same 'Welcome / Login' window. The 'Username' field now contains the text 'tech'. The 'Password' field contains four dots (masked characters). The 'Login' button is highlighted with a blue border, and a blue arrow labeled '3rd' points to it.

Main menu of tests and settings.

The screenshot shows the main menu of the LP-5000 scale. At the top, there are three display boxes: 'WEIGHT IN kg' showing '0,000', 'WEIGHT IN DIVISIONS' showing '6000', and 'ZERO IN DIVISIONS' showing '6000'. Below these is a 'TEST MODE' label. On the left side, there is a vertical menu with the following options: 'General', 'Weight', 'Printers', 'Initialization', 'Versions', and 'Exit Application'. At the bottom right, there is a 'Logout' button with a right-pointing arrow icon. The background is a light gray.

1.1 General

Select "General".

This screenshot is identical to the one above, but with a blue rectangular box highlighting the 'General' option in the left-hand menu. A blue arrow points from the right towards the 'General' box, indicating the selection action.

Number of active platforms, indicate number (between 0 and 2). Main platform, indicate which of the platforms will be the main one (1 or 2). Indicate the decimal sing ("Comma: ," or "Dot: .") and the thousand sing ("Space: " or "Comma: ," or "Dot: .") . Also, you can change the system language, selecting between English or Spanish and selecting the new button you can configure a new language.

MIN
→0←

WEIGHT IN kg

0,000

WEIGHT IN DIVISIONS

6000

ZERO IN DIVISIONS

6000

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

General

Weight

Printers

Initialization

Versions

Exit Application

Active platforms number

- 1 +

Main platform

- 1 +

Decimal sign

Comma: ,

Thousand sign

Dot: .

System language

New +

Date and Time

Back

Update

Click on "Update" and then on "Back".

MIN
→0←

WEIGHT IN kg

0,000

WEIGHT IN DIVISIONS

6000

ZERO IN DIVISIONS

6000

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

General

Weight

Printers

Initialization

Versions

Exit Application

Active platforms number

- 1 +

Main platform

- 1 +

Decimal sign

Comma: ,

Thousand sign

Dot: .

System language

New +

Date and Time

Back

Update

2nd

1st

You can change the date and time, from "General" by clicking on the "Date and Time" box.

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

General | Active platforms number | - | 1 | + | System language | +

Weight | Main platform | - | 1 | +

Printers | Decimal sign | Comma: , | ▾

Initialization | Thousand sign | Dot: . | ▾

Versions

Exit Application

Date and Time

Back < Update >

Enter values for date and time and click on "Confirm date".

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

General | **Date Time settings** | 2nd | Confirm date ✓

Weight | Timezone 1st | Europe/Madrid ▾

Printers | Month | < August >

Initialization | Year | < 2022 >

Versions | Hour | 09:19 ⌚

Exit Application

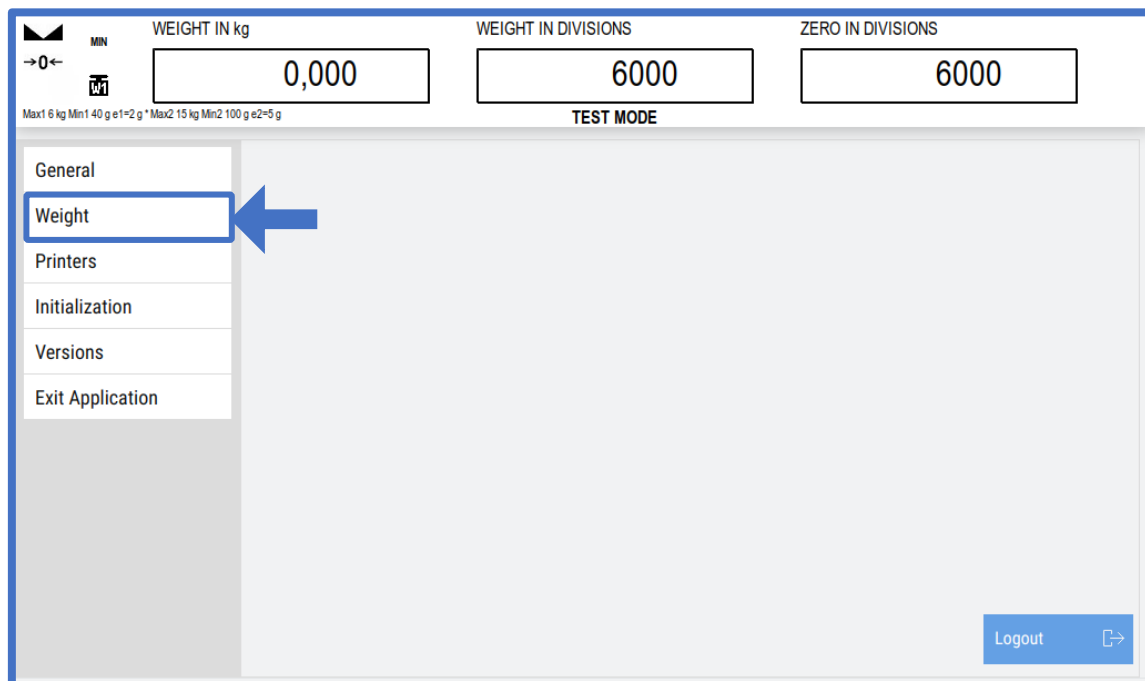
M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Update >

1.2 Platform selection 1 and 2

To enter the different adjustment and configuration options of the weight platform (number 1) installed follow the steps detailed in the following pages. In case of having installed a second platform (number 2), as in this occasion, you would have to press on "Weight 2" and follow the same steps as with Weight 1.

Select "Weight 1" or "Weight" depending on whether there is more than one weigh cell or only one.



1.2.1 General configuration

Select "General configuration".



Configure parameters, click "Update" and then "Back".

MIN
→0←

WEIGHT IN kg 0,000

WEIGHT IN DIVISIONS 6000

ZERO IN DIVISIONS 6000

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

General

Weight

General configuration

Setup Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Printers

Initialization

Versions

Exit Application

Platform description C1

Wind protect flag

Wind limit in d - 5 +

Clear Article details after transaction

Delete after transaction

Delete after transaction and pass by zero

Delete after transaction

Delete after zero crossing

1st

2nd

3rd

Update

Back

1.2.2 Setup configuration

Select "Setup Configuration".

MIN
→0←

WEIGHT IN kg 0,000

WEIGHT IN DIVISIONS 6000

ZERO IN DIVISIONS 6000

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1

General

Weight 1

General configuration

Setup Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Weight 2

Printers

Initialization

Versions

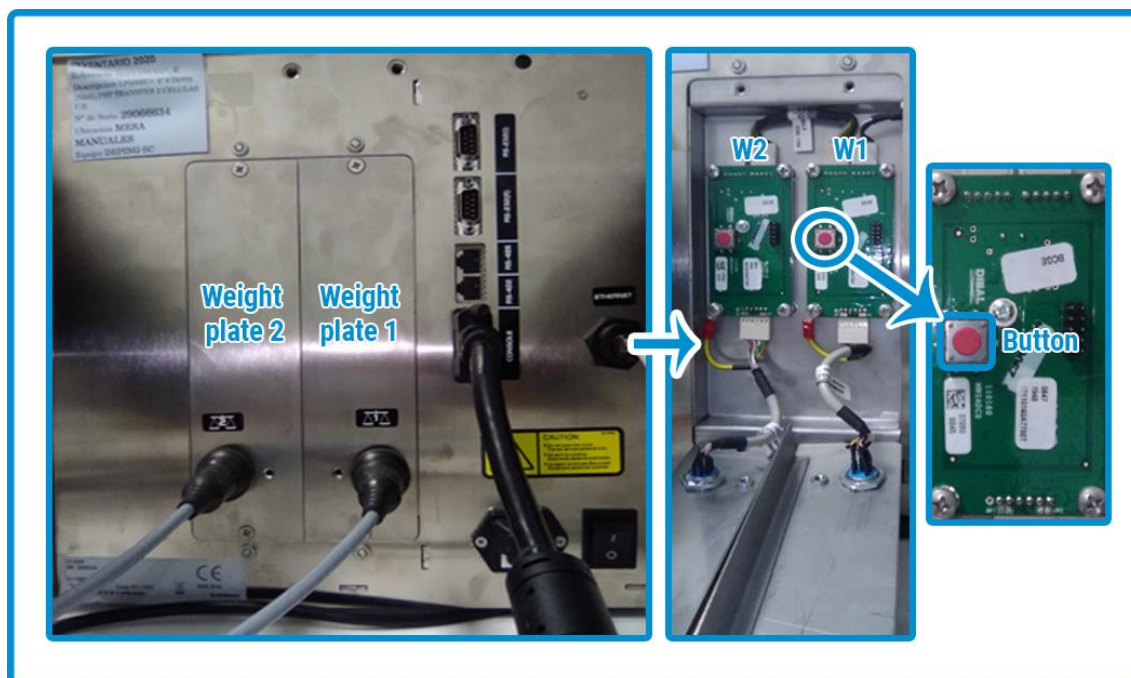
Logout

Slide the screen up and click on "Enable".

WEIGHT IN kg		WEIGHT IN DIVISIONS		ZERO IN DIVISIONS	
0,000		6000		6000	
Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g					
TEST MODE					

- General Weight - General configuration Setup Configuration - Weight adjustment - Set Tare - Remove tare - Zero - Printers - Initialization - Versions - Exit Application	Calibration flag	Closed	1st 2nd	Total round	1
	Price decimal point	2		Equipment type	Desktop
	Min weight for sale mode	Ignore min weight		unit	kg
	Allow sale mode	In motion		Weight unit symbol	kg
	Currency	€		Step unit symbol	g
	Calibration site latitude	43		Load cell type	Multi-range
	Calibration site Altitude(m)	20		Range	6/15kg 2/5g
	Destination site latitude	43			
	Destination site Altitude(m)	20			
		Enable Back			

Press the physical adjustment button, located on the weight plate (back of the labeller). Loosen the lower and upper screws of the caps to access the adjustment button.



After pressing the adjustment button, press "Continue".

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

General

Weight

General configuration

Setup Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Printers

Initialization

Versions

Exit Application

Calibration flag

Total round

Min

Cal

Des

Destination site Altitude(m)

20

Enable

Back

Press the H/W Adjust button 3rd

4th

Cancel

Continue

The option to modify some parameters (indicated in the image), enter the changes and then click on "Update" and "Back" has been enabled.

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

General

Weight

General configuration

Setup Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Printers

Initialization

Versions

Exit Application

Calibration flag

Total round

Min

Cal

Des

Destination site Altitude(m)

20

Enable

Back

Press the H/W Adjust button 3rd

4th

Cancel

Continue

Price decimal point

Min weight for sale mode

Allow sale mode

Currency

Calibration site latitude

Calibration site Altitude(m)

Destination site latitude

Destination site Altitude(m)

Total round

Equipment type

unit

Weight unit symbol

Step unit symbol

Load cell type

Range

5th

6th

Update

Back

1.2.3 Weight adjustment

Select "Weight adjustment" to perform platform calibration by zero and weight adjustment.

MIN →0←

WEIGHT IN kg: 0,000

WEIGHT IN DIVISIONS: 5883

ZERO IN DIVISIONS: 5883

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1

- General
- Weight 1**
- General configuration
- Setup Configuration
- Weight adjustment**
- Set Tare
- Remove tare
- Zero
- Weight 2
- Printers
- Initialization
- Versions

Logout

In this menu, you can check the settings and calibration status: open or closed.

MIN →0←

WEIGHT IN kg: 0,000

WEIGHT IN DIVISIONS: 5999

ZERO IN DIVISIONS: 5999

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

- General
- Weight**
- General configuration
- Setup Configuration
- Weight adjustment**
- Set Tare
- Remove tare
- Zero
- Printers
- Initialization
- Versions
- Exit Application

Calibration flag: Closed

Platform description: C1

Wind protect flag: ☐

Wind limit in d: - 5 +

Clear Article details after transaction: Delete after transaction

Equipment type: Desktop

Currency: €

Load cell type: Multi-range

Range: 6/15kg 2/5g

Calibration site latitude: 43

Calibration site Altitude(m): 20

Destination site latitude: 43

Destination site Altitude(m): 20

Price decimal point: 2

Min weight for sale mode: Ignore min weight

Allow sale mode: In motion

unit: kg

Weight unit symbol: kg

Step unit symbol: g

Total round: 1

Slide the screen up and click on "Enable".

WEIGHT IN kg: 0,000

WEIGHT IN DIVISIONS: 5998

ZERO IN DIVISIONS: 5998

TEST MODE

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

General Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Printers

Initialization

Versions

Exit Application

Wind limit in d: - 5 +

Clear Article details after transaction: Delete after transaction

Equipment type: Desktop

Currency: €

Load cell type: Multi-range

Range: 6/15kg 2/5g

Destination site latitude: 43

Destination site Altitude(m): 20

Price decimal point: 2

Min weight for sale mode: Ignore min weight

Allow sale mode: In motion

unit: kg

Weight unit symbol: kg

Step unit symbol: g

Total round: 1

Calibration weight: 10,000

1st

2nd

Enable

Update

Back

Press the physical adjustment button on the back of the labeller and then click on "Continue".

WEIGHT IN kg: 0,000

WEIGHT IN DIVISIONS: 5998

ZERO IN DIVISIONS: 5998

TEST MODE

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

General

Weight

General configuration

Setup Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Printers

Initialization

Versions

Exit Application

Calibration flag: Cleared

Calibration site latitude: 43

min weight

ion

Multi-range

Range: 6/15kg 2/5g

Weight unit symbol: kg

Step unit symbol: g

Total round: 1

3rd

4th

Cancel

Continue

The status is opened (as can be seen in the image). In this way, the labeller is available for calibration. It also gives the possibility to modify the data of the different fields.

Slide the screen information up and click on "Update".

Follow the screen prompts and with the platform empty, click on "Zero adjustment".

MIN
→0←

WEIGHT IN kg

0,000

WEIGHT IN DIVISIONS

5999

ZERO IN DIVISIONS

5999

Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE

Before Zero adjustment check

1. Platform / plate is clear
2. Platform / plate is not in contact with a wall or other element
3. There are no vibrations
4. There is no airflow

Exit Adjustment

Zero adjustment

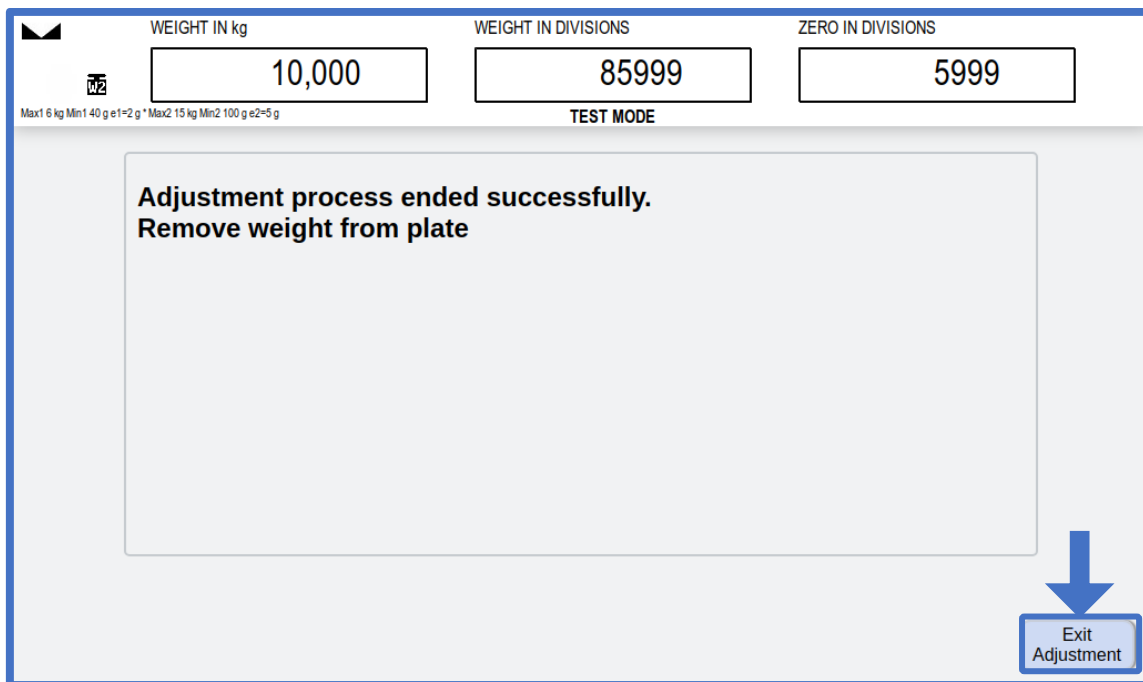
Place the mass of 10kg on the platform and click on "Weight adjustment".

Place on platform / plate calibration weight : 10,000 kg

Exit Adjustment

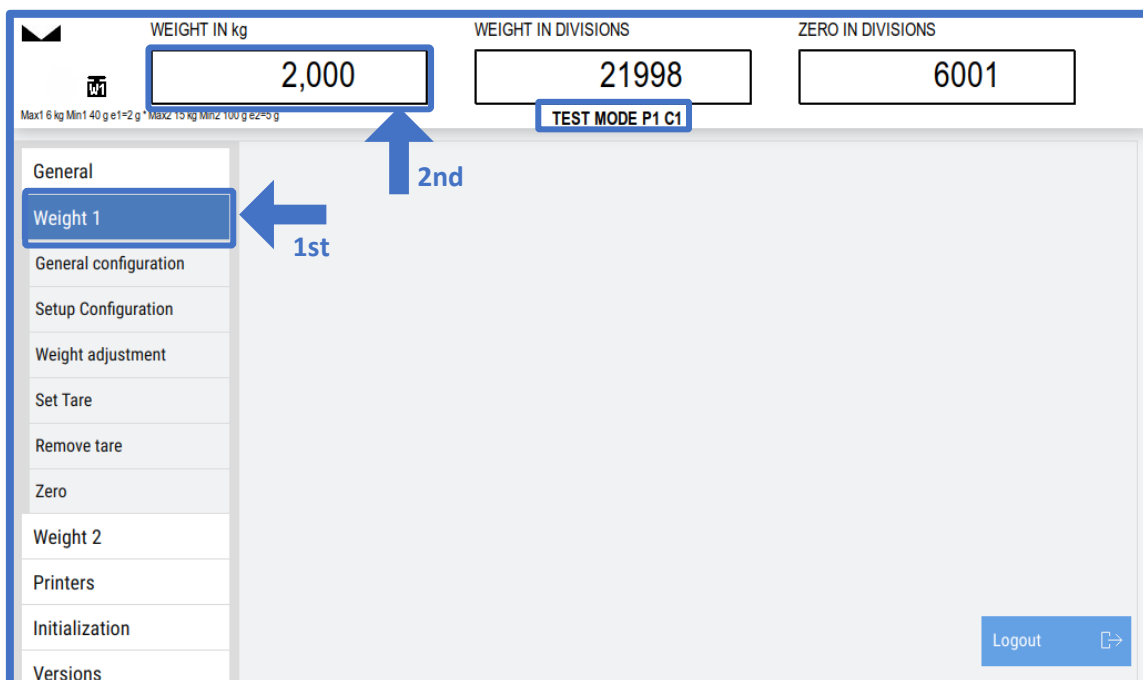
Weight adjustment

Follow the display prompts (remove the platform mass) and click on "Exit Adjustment".



Check that the weight is correct. Place weight mass (2kg) on the platform to check.

Select platform "Weight 1".



Selecting platform "Weight 2".

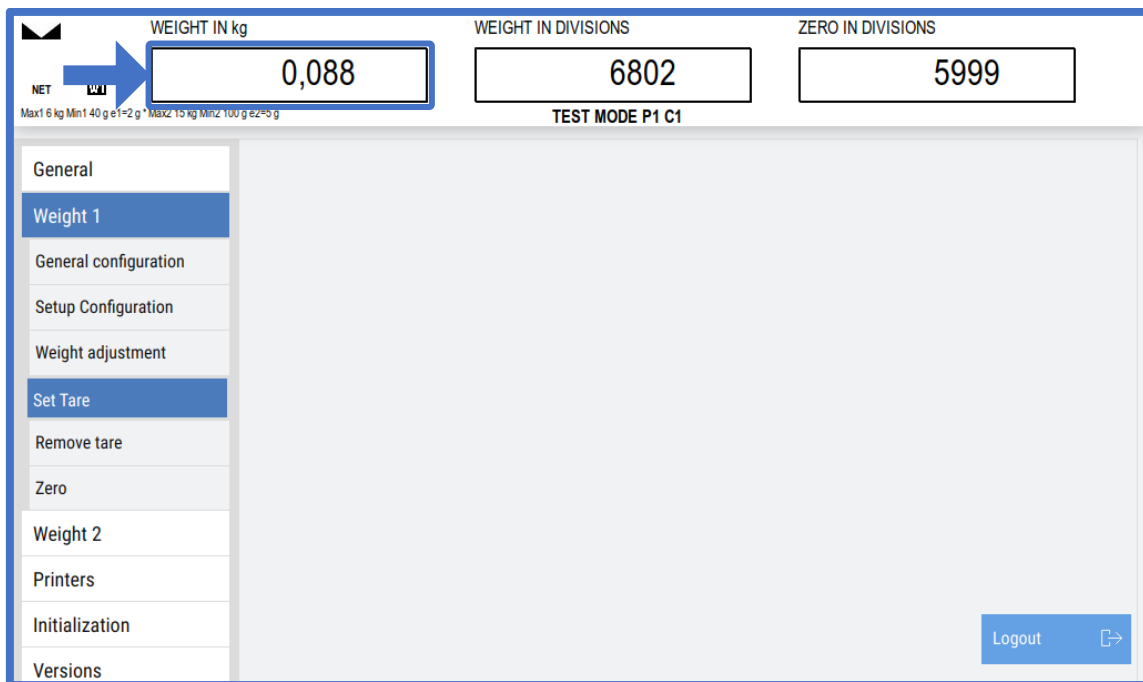
The screenshot shows the main interface of the LP-5000 scale. At the top, there are three display boxes: 'WEIGHT IN kg' showing '2,000', 'WEIGHT IN DIVISIONS' showing '26001', and 'ZERO IN DIVISIONS' showing '6001'. Below these, a 'TEST MODE P2' label is visible. On the left side, a vertical menu lists various options: General, Weight 1, Weight 2, General configuration, Setup Configuration, Weight adjustment, Set Tare, Remove tare, Zero, Printers, Initialization, and Versions. A blue arrow labeled '1st' points to 'Weight 2' in the menu, and another blue arrow labeled '2nd' points to the '2,000' value in the 'WEIGHT IN kg' display. A 'Logout' button with a right arrow icon is located in the bottom right corner.

1.2.4 Set tare

Select "Set Tare".

The screenshot shows the main interface of the LP-5000 scale. At the top, there are three display boxes: 'WEIGHT IN kg' showing '0,088', 'WEIGHT IN DIVISIONS' showing '6802', and 'ZERO IN DIVISIONS' showing '5999'. Below these, a 'TEST MODE P1 C1' label is visible. On the left side, a vertical menu lists various options: General, Weight 1, General configuration, Setup Configuration, Weight adjustment, Set Tare, Remove tare, Zero, Weight 2, Printers, Initialization, and Versions. A blue arrow points to 'Set Tare' in the menu. A 'Logout' button with a right arrow icon is located in the bottom right corner.

Place the weight for tare and click on "Set Tare".



Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1 C1

General

Weight 1

General configuration

Setup Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Weight 2

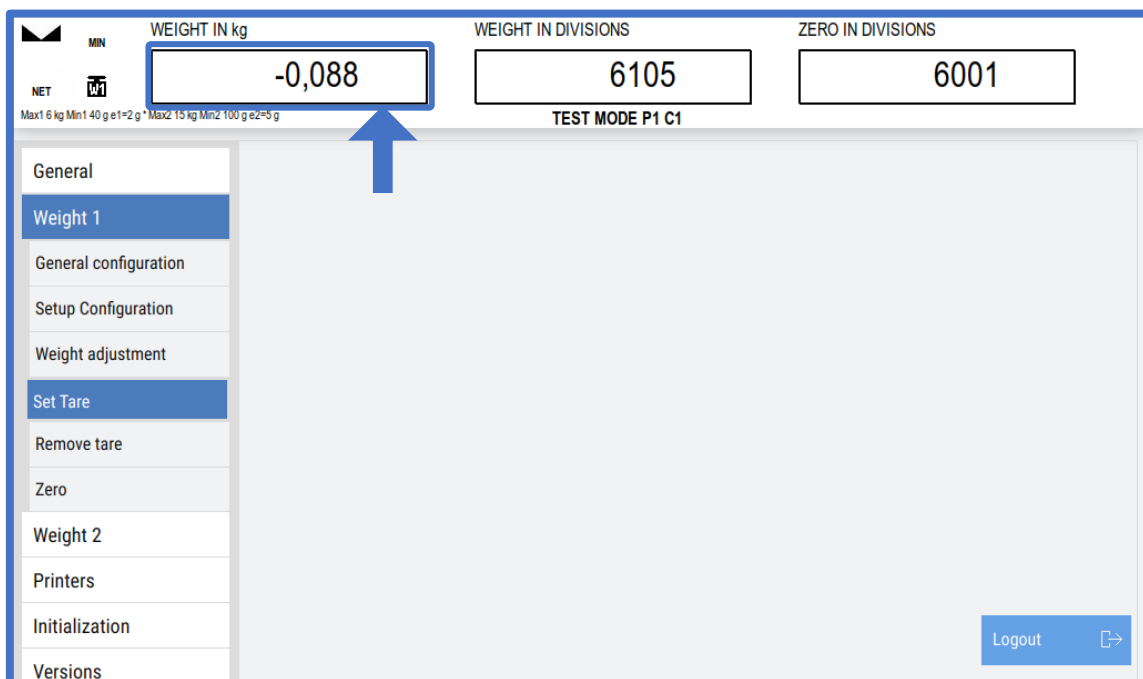
Printers

Initialization

Versions

Logout

Tare weight established.



Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1 C1

General

Weight 1

General configuration

Setup Configuration

Weight adjustment

Set Tare

Remove tare

Zero

Weight 2

Printers

Initialization

Versions

Logout

1.2.5 Remove tare

Select "Remove tare".

The screenshot shows the LP-5000 scale interface. At the top, there are three display fields: "WEIGHT IN kg" showing "0,000", "WEIGHT IN DIVISIONS" showing "6003", and "ZERO IN DIVISIONS" showing "6003". Below these fields is a status bar with the text "Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g" and "TEST MODE P1 C1". On the left side, there is a menu with the following options: "General", "Weight 1", "General configuration", "Setup Configuration", "Weight adjustment", "Set Tare", "Remove tare", "Zero", "Weight 2", "Printers", "Initialization", and "Versions". The "Remove tare" option is highlighted in blue, and a blue arrow points to it from the right. In the bottom right corner, there is a "Logout" button with a right-pointing arrow icon.

Clicking "Remove tare" removes the tare set above.

This screenshot is identical to the one above, showing the LP-5000 scale interface with the "Remove tare" option selected in the menu. The top displays show "0,000" kg, "6003" divisions, and "6003" zero divisions. The menu on the left has "Remove tare" highlighted in blue, and a blue arrow points to it. The "Logout" button is in the bottom right corner.

1.2.6 Zero

Select "Zero".

The screenshot shows the scale's configuration menu. At the top, there are three display fields: 'WEIGHT IN kg' showing '0,000', 'WEIGHT IN DIVISIONS' showing '6003', and 'ZERO IN DIVISIONS' showing '6003'. Below these is a status bar with 'Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g' and 'TEST MODE P1 C1'. The left sidebar contains a list of menu items: 'General', 'Weight 1', 'General configuration', 'Setup Configuration', 'Weight adjustment', 'Set Tare', 'Remove tare', 'Zero', 'Weight 2', 'Printers', 'Initialization', and 'Versions'. The 'Zero' item is highlighted in blue, and a large blue arrow points to it from the right. A 'Logout' button with a right arrow icon is located in the bottom right corner of the main area.

Set zero on the platform.

This screenshot is identical to the one above, showing the scale's configuration menu with the 'Zero' option selected in the sidebar. The top displays show '0,000' kg, '6003' divisions, and '6003' zero divisions. The status bar indicates 'TEST MODE P1 C1'. The sidebar menu items are the same, with 'Zero' highlighted. The 'Logout' button is in the bottom right.

1.3 Printers

This section shows the procedure for adjusting the printing of the labeller and the recommended factory values in each of the fields. From the main menu on "printers" are all the settings and tests to leave the equipment prepared.

Select "Printers".

The screenshot shows the main menu of the LP-5000 device. At the top, there are three input fields: 'WEIGHT IN kg' with value '0,000', 'WEIGHT IN DIVISIONS' with value '6003', and 'ZERO IN DIVISIONS' with value '6004'. Below these is a status bar indicating 'TEST MODE P1 C1'. On the left, a vertical sidebar contains menu items: 'General', 'Weight 1', 'Weight 2', 'Printers', 'Initialization', 'Versions', and 'Exit Application'. The 'Printers' item is highlighted with a blue box and a blue arrow points to it from the right. At the bottom right, there is a 'Logout' button with an arrow icon.

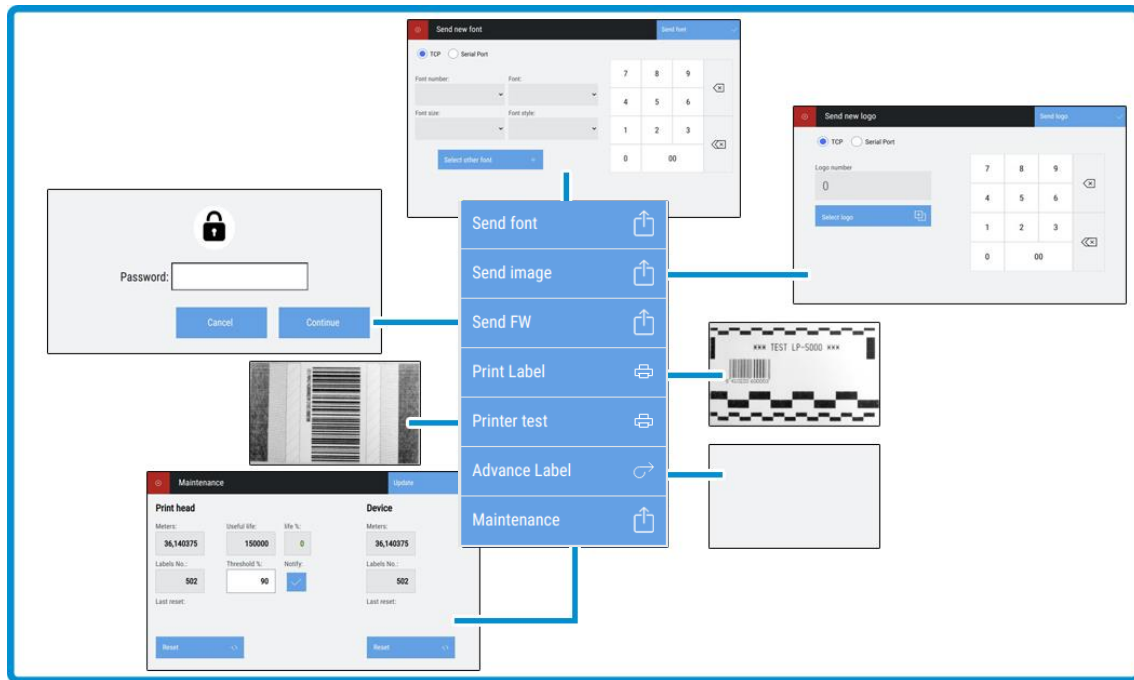
Click on "the pen" to access the LP5000 printer settings.

The screenshot shows the 'Printers' settings screen. It features a table with printer configurations. The left sidebar is the same as in the previous screenshot, with 'Printers' selected. The table has columns for ID, Printer type, Description, Active status, and two action columns (edit and delete). A blue arrow points to the 'pen' icon in the edit column for the first row (ID 1).

ID	Printer type	Description	Active		
1	LP5000 Printer	LP-5000	✓		
2	CUPS Generic	colec	✓		
3	LP5000 Printer	Nueva impresora	✓		
l_table_blue	0	0			

At the bottom right, there are 'Back' and 'Add' buttons with arrow icons.

Explanation blue box of the menu "Printers".



-Send font: allows you to select font, size and style and send it.

-Send logo: allows you to select an image saved in the Operating S. and send it.

-Send FW: allows to send the firmware. Password required: dibalfw1985

-Print Label: prints a label in test format.

-Printer test: prints a label in adjustment format.

-Advance Label: prints a blank label and therefore advances the section of paper that corresponds to it.

-Maintenance: display the values of the printhead and device, you can see how many meters of roll have been spent and the number of printed labels. There is the option to reset and update the changes made.

1.3.1 General

Contrast:

The contrast increases or decreases the label burn. It has a range from 0 to 29. From 0 to 19 the burning increases and reduces the speed, while from 20 to 29 is reduced by 10%.

-Note: The values of the different sections can be changed by clicking on “-” or “+”, or by standing on the number (delete it) and writing the new value (within the established limits) for the numerical values and clicking on the “arrows” (v) to slide and choose the desired option in the rest of the values.

Distance from exit:

Adjusts the label output so that when printed it does not stay inside and can be easily removed. It has a range from 0 to 199. It is recommended to stay at 90.

Distance of opto-head:

It refers to the mechanically fixed initial distance between the head and the output opto. It has a range of -99 to 99. It is recommended that the value be 0.

PRINTER HEAD TEMPERATURE

28

PRINTER OPTO SENSOR

215

RIBBON OPTO SENSOR

242

TEST MODE

Description: LP-5000

GeneralSensorsCommunication

Contrast-9+

Distance from exit-150+

Distance of opto-head-0+←

Header modeDon't go back and print

Print speedHigh

Horizontal alignCenter

Thermal header8 dots

Horizontal offset-0+

Vertical offset-0+

Paper rewinderOn (0ms)

Ribbon rewinder

Send font

Send image

Send FW

Print Label

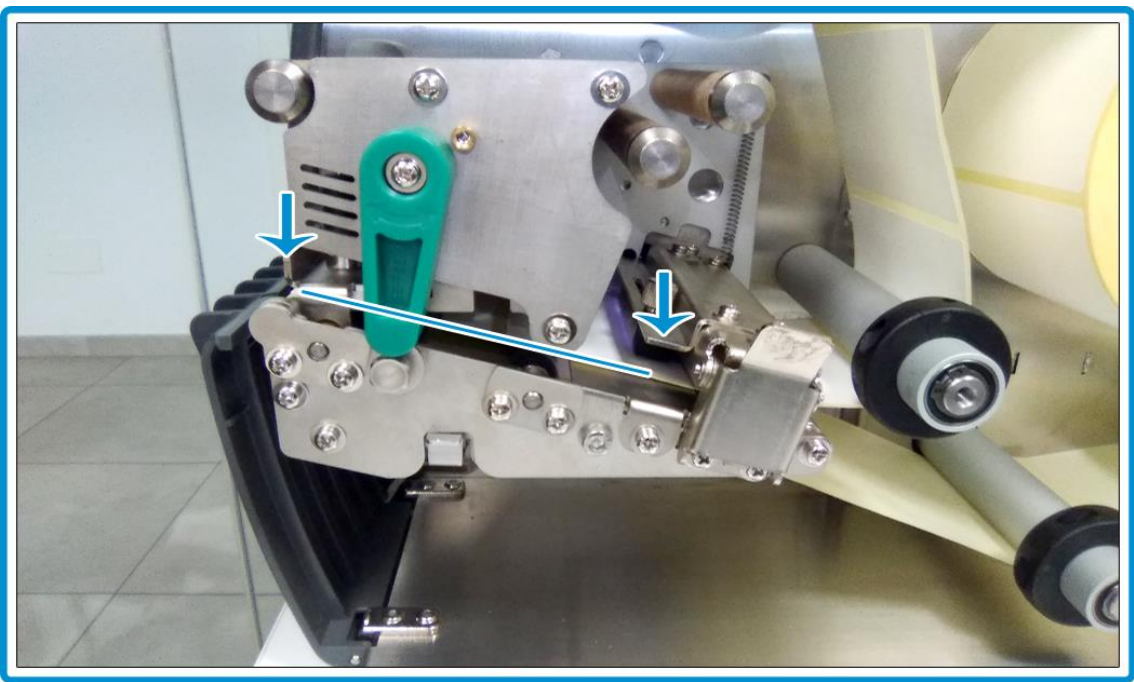
Printer test

Advance Label

Maintenance

Back

Update



Header mode:

When the label has a header. It has four modes: Go back and don't print header, don't go back neither print header, go back and print header and don't go back and print.

The screenshot shows the 'TEST MODE' interface of the LP-5000 printer. At the top, three sensor readings are displayed: PRINTER HEAD TEMPERATURE (28), PRINTER OPTO SENSOR (215), and RIBBON OPTO SENSOR (242). Below these, the 'Description' is 'LP-5000'. A left sidebar contains buttons: 'Send font', 'Send image', 'Send FW', 'Print Label', 'Printer test', 'Advance Label', and 'Maintenance'. The main area has three tabs: 'General', 'Sensors', and 'Communication'. The 'General' tab is active, showing settings for Contrast (9), Distance from exit (150), Distance of opto-head (0), Thermal header (8 dots), Horizontal offset (0), Vertical offset (0), Paper rewinder (On (0ms)), and Ribbon rewinder (checked). The 'Header mode' is set to 'Don't go back and print', and 'Print speed' is 'High'. A blue arrow points to the 'Header mode' dropdown menu. At the bottom right are 'Back' and 'Update' buttons.

Print speed:

There are four pre-set printing speeds: regular, medium, low and high.

This screenshot is identical to the one above, showing the 'TEST MODE' interface. However, a blue arrow now points to the 'Print speed' dropdown menu, which is currently set to 'High'. The 'Header mode' remains 'Don't go back and print'. All other settings and the interface layout are the same as in the previous screenshot.

Horizontal align:

Align label printing from a midpoint: right, center, and left.

The screenshot shows the printer's TEST MODE interface. At the top, three status boxes display: PRINTER HEAD TEMPERATURE (28), PRINTER OPTO SENSOR (215), and RIBBON OPTO SENSOR (242). Below these is the 'TEST MODE' title and a 'Description: LP-5000' field. A left sidebar contains menu items: Send font, Send image, Send FW, Print Label, Printer test, Advance Label, and Maintenance. The main area has three tabs: General, Sensors, and Communication. The 'General' tab is active, showing settings for Contrast (9), Distance from exit (150), Distance of opto-head (0), Header mode (Don't go back and print), Print speed (High), and Horizontal align (Center). The 'Horizontal align' option is highlighted with a blue box and an arrow. On the right, there are settings for Thermal header (8 dots), Horizontal offset (0), Vertical offset (0), Paper rewinder (On (0ms)), and Ribbon rewinder (checked). At the bottom right are 'Back' and 'Update' buttons.

Thermal header:

Adjusts the precision of the thermal head. By default, the machine comes equipped with the 8 dots header. There are two types of thermal head, 8 and 12 dots.

This screenshot is similar to the one above, showing the 'TEST MODE' interface. However, in this view, the 'Thermal header' option in the right-hand settings panel is highlighted with a blue box and an arrow. The 'Horizontal align' option in the 'General' tab is no longer highlighted. All other settings and the interface layout remain the same as in the previous screenshot.

Horizontal offset:

The horizontal position of the print on the label is corrected. It has a range from -9999 to 9999 dots. It is recommended that the value be 0.

The screenshot shows the 'TEST MODE' settings for the LP-5000 printer. At the top, three status boxes display: PRINTER HEAD TEMPERATURE (28), PRINTER OPTO SENSOR (215), and RIBBON OPTO SENSOR (242). Below these, a 'Description' field shows 'LP-5000'. A left sidebar contains buttons: Send font, Send image, Send FW, Print Label, Printer test, Advance Label, and Maintenance. The main area has three tabs: General, Sensors, and Communication. The 'General' tab is active, showing settings for Contrast (9), Distance from exit (150), Distance of opto-head (0), Header mode (Don't go back and print), Print speed (High), and Horizontal align (Center). On the right, a 'Thermal header' dropdown is set to '8 dots'. Below it, the 'Horizontal offset' is set to 0, highlighted with a blue box and a blue arrow. Other settings include Vertical offset (0), Paper rewriter (On (0ms)), and Ribbon rewriter (checked). At the bottom right are 'Back' and 'Update' buttons.

Vertical offset:

The vertical position of the print on the label is corrected. It has a range from -9999 to 9999 dots. It is recommended that the value be 0.

This screenshot is identical to the one above, showing the 'TEST MODE' settings for the LP-5000 printer. In this view, the 'Vertical offset' is highlighted with a blue box and a blue arrow, showing a value of 0. The 'Horizontal offset' is also visible, set to 0. All other settings and the interface layout remain the same as in the previous screenshot.

Paper rewriter:

Enables or disables the rewriter. You can also set the timeout for its activation; 0/300/2000ms.

PRINTER HEAD TEMPERATURE

28

PRINTER OPTO SENSOR

215

RIBBON OPTO SENSOR

242

TEST MODE

Description: LP-5000

General

Sensors

Communication

Contrast

-

9

+

Distance from exit

-

150

+

Distance of opto-head

-

0

+

Header mode

Don't go back and print

▼

Print speed

High

▼

Horizontal align

Center

▼

Thermal header

8 dots

▼

Horizontal offset

-

0

+

Vertical offset

-

0

+

Paper rewriter

On (0ms)

▼

Ribbon rewriter

☒

Send font

Send image

Send FW

Print Label

Printer test

Advance Label

Maintenance

Back

Update

Ribbon rewriter:

Activate ☒ or deactivate ☐ the Ribbon rewriter.

PRINTER HEAD TEMPERATURE

28

PRINTER OPTO SENSOR

215

RIBBON OPTO SENSOR

242

TEST MODE

Description: LP-5000

General

Sensors

Communication

Contrast

-

9

+

Distance from exit

-

150

+

Distance of opto-head

-

0

+

Header mode

Don't go back and print

▼

Print speed

High

▼

Horizontal align

Center

▼

Thermal header

8 dots

▼

Horizontal offset

-

0

+

Vertical offset

-

0

+

Paper rewriter

On (0ms)

▼

Ribbon rewriter

☒

Send font

Send image

Send FW

Print Label

Printer test

Advance Label

Maintenance

Back

Update

1.3.2 Sensors

Frontier:

Mean value between reading the opto on paper holder and on the label. It has a range from 0 to 255.

PRINTER HEAD TEMPERATURE: 28

PRINTER OPTO SENSOR: 214

RIBBON OPTO SENSOR: 242

TEST MODE

Description: LP-5000

General | **Sensors** | Communication

Frontier: - 160 +

No paper: - 30 +

Paper mode: Regular

Label out opto: ☐

Open door opto: ☐

Low paper opto: ☐

Low paper notice: ☐

Ribbon opto: ☒

Back | Update

No paper:

A value is entered. When the labeler makes a reading less than that value it gives error. It has a range from 0 to 255.

PRINTER HEAD TEMPERATURE: 28

PRINTER OPTO SENSOR: 214

RIBBON OPTO SENSOR: 242

TEST MODE

Description: LP-5000

General | **Sensors** | Communication

Frontier: - 160 +

No paper: - 30 +

Paper mode: Regular

Label out opto: ☐

Open door opto: ☐

Low paper opto: ☐

Low paper notice: ☐

Ribbon opto: ☒

Back | Update

Paper mode:

It has two modes, normal (the opto detects the labeller by paper holder) and reverse (the opto detects the label by black line).

PRINTER HEAD TEMPERATURE

28

PRINTER OPTO SENSOR

214

RIBBON OPTO SENSOR

242

TEST MODE

Description: LP-5000

General

Sensors

Communication

Send font

Send image

Send FW

Print Label

Printer test

Advance Label

Maintenance

Frontier

-

160

+

No paper

-

30

+

Paper mode

Regular

⌵

Label out opto

Open door opto

Low paper opto

Low paper notice

Ribbon opto

Back

←

Update

↺

Status of the optos:

Activation ☒ or deactivation ☐ of the optos: label out opto, open door opto, low paper opto, low paper notice and the ribbon opto.

PRINTER HEAD TEMPERATURE

28

PRINTER OPTO SENSOR

214

RIBBON OPTO SENSOR

242

TEST MODE

Description: LP-5000

General

Sensors

Communication

Send font

Send image

Send FW

Print Label

Printer test

Advance Label

Maintenance

Frontier

-

160

+

No paper

-

30

+

Paper mode

Regular

⌵

Label out opto

Open door opto

Low paper opto

Low paper notice

Ribbon opto

Back

←

Update

↺

1.3.3 Communication

Select "Communication". IP address and port are indicated.

Click on "Update" and "Back" to save the changes made in the printer sections.

To see the result of the adjustment with a printed label, go back to the labeling screen (working operation), log out in "tech" and start with the user and password lp5000.

Once logged in, select an article and print a label, so the result will show if the adjustments made are correct.

-Note: In the printing. Run 3 print tests beforehand (if this is the first time it is printed after turning on the equipment) until the labeller adjusts and prints the label correctly.

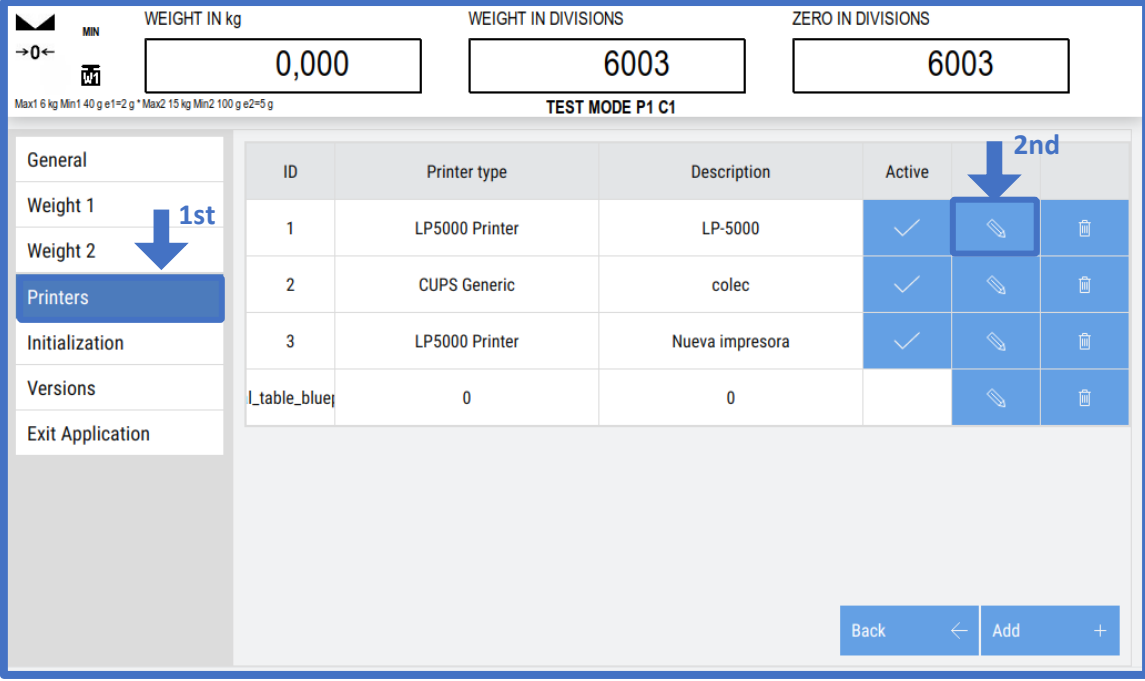
1.3.4 Sending of Printing Fonts

It allows the user to send a TTF font file with a unique identifier, which can then be used to print texts on label formats.

1.3.4.1 Procedure

Access the Test menu, using the "tech" username and password.

Access the LP-5000 printer menu to which you want to send the fonts.



WEIGHT IN kg: 0,000
WEIGHT IN DIVISIONS: 6003
ZERO IN DIVISIONS: 6003

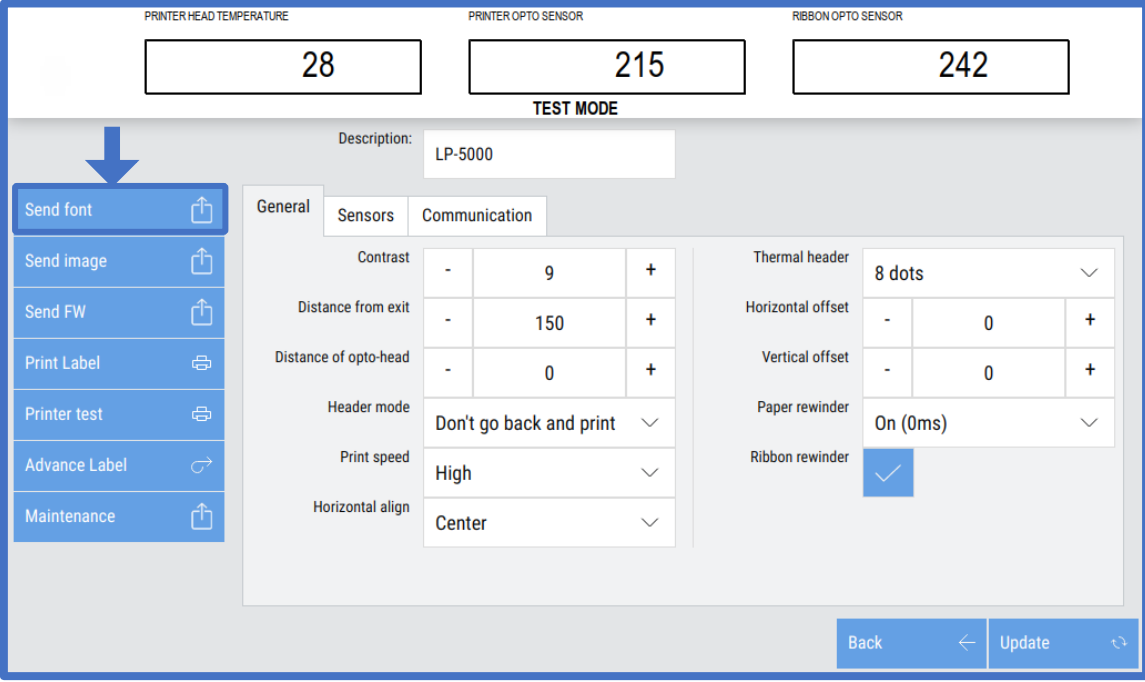
Max1 6 kg Min1 40 g e1=2 g *Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1 C1

ID	Printer type	Description	Active		
1	LP5000 Printer	LP-5000	✓		
2	CUPS Generic	colec	✓		
3	LP5000 Printer	Nueva impresora	✓		
1_table_blue	0	0			

Back Add

Press the button "Send font".



PRINTER HEAD TEMPERATURE: 28
PRINTER OPTO SENSOR: 215
RIBBON OPTO SENSOR: 242

TEST MODE

Description: LP-5000

General Sensors Communication

Contrast: - 9 +
Distance from exit: - 150 +
Distance of opto-head: - 0 +
Header mode: Don't go back and print
Print speed: High
Horizontal align: Center

Thermal header: 8 dots
Horizontal offset: - 0 +
Vertical offset: - 0 +
Paper rewinder: On (0ms)
Ribbon rewinder: ☒

Back Update

In the "Send New Font" window the following fields will be filled in:

-Font number: Font identifier so that it can be associated to the texts in the label formats.

-Font size: Font size to send. The range of valid values is from 6 to 99. You can enter a manual value or select a value in the dropdown.

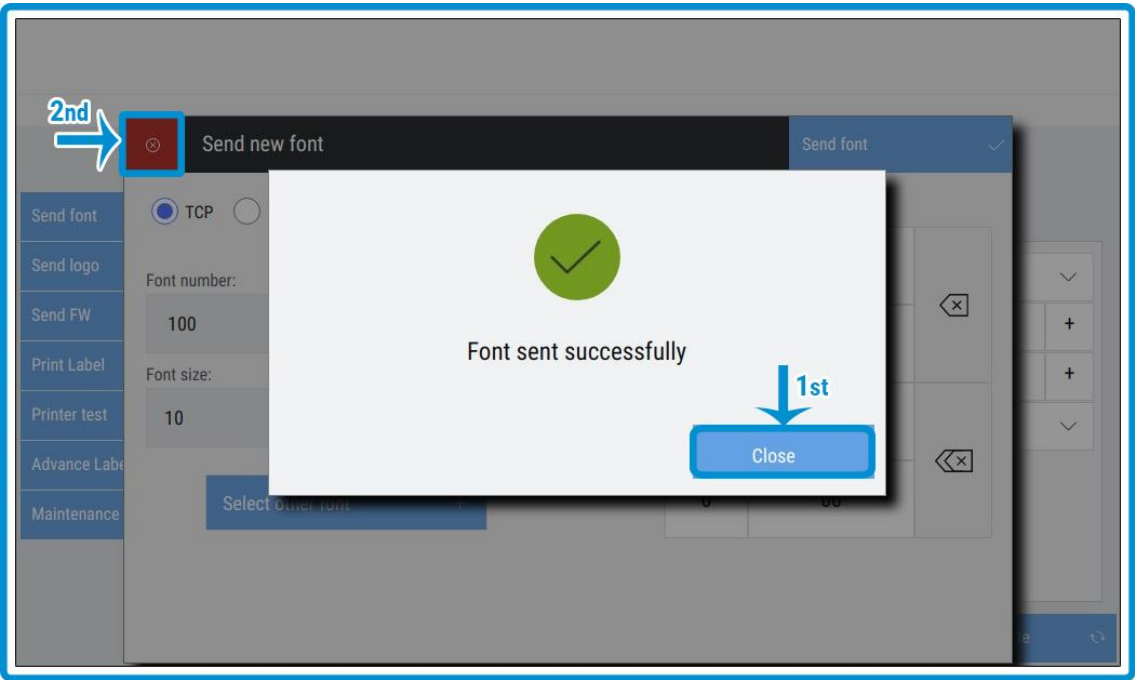
-Font: Preloaded source on the device that can be sent to the printer.

-Font style: Font style to send to the printer. Each font can have different font styles.

If the user wants, instead of selecting one of the preloaded fonts on the device, he can select a font file (.ttf) from any directory on the device or from an external storage device. In this case the operating system file explorer will open to select the desired file.

If this screen is accessed from a remote browser, the user can select the file by looking in the directories of his PC.

Once the font has been successfully sent to the printer, a notification to the user will be displayed.

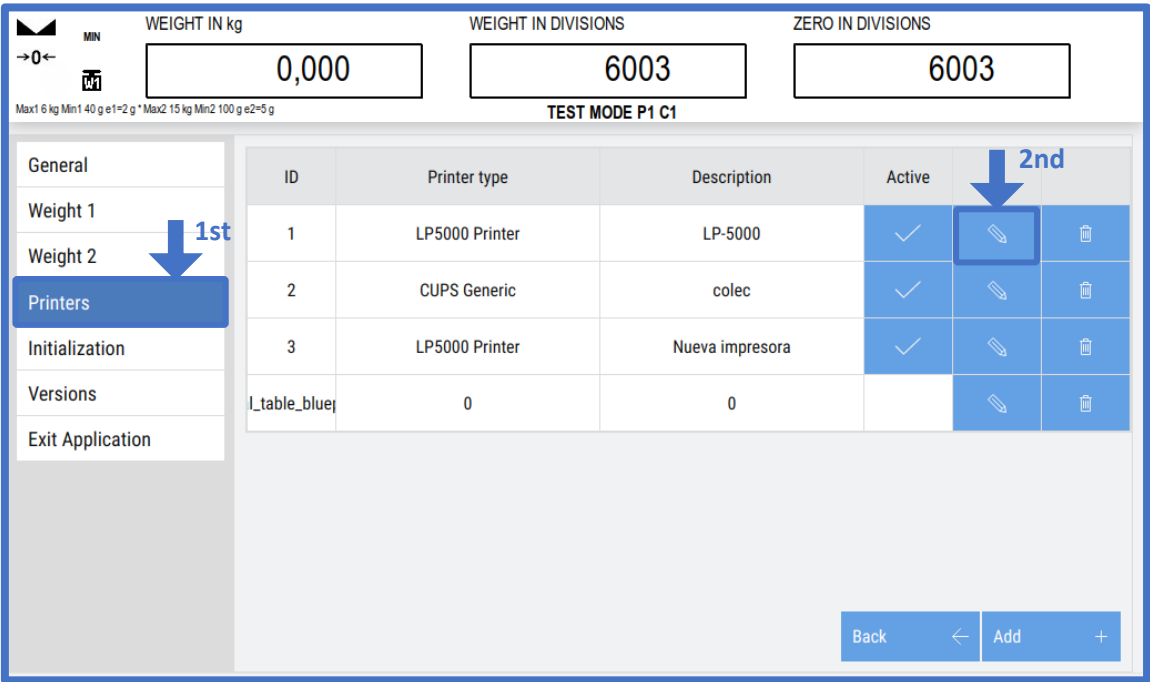


1.3.5 Sending of printing images

This functionality allows the user to send a print image with a unique identifier that can be printed in label formats.

1.3.5.1 Procedure

Access the Test menu, through the user "tech".
Access the menu Printer LP-5000 to which you want to send the logos.



Click on "Send image".

PRINTER HEAD TEMPERATURE: 28

PRINTER OPTO SENSOR: 215

RIBBON OPTO SENSOR: 242

TEST MODE

Description: LP-5000

General | Sensors | Communication

Contrast: - 9 +

Distance from exit: - 150 +

Distance of opto-head: - 0 +

Header mode: Don't go back and print

Print speed: High

Horizontal align: Center

Thermal header: 8 dots

Horizontal offset: - 0 +

Vertical offset: - 0 +

Paper rewinder: On (0ms)

Ribbon rewinder: ☒

Back | Update

From the logos sending window, you must select a file by clicking the "Select logo" button.

Send new logo | Send image

☒ TCP ☐ Serial Port

Image number: 11

Select image

7 8 9

4 5 6

1 2 3

0 00

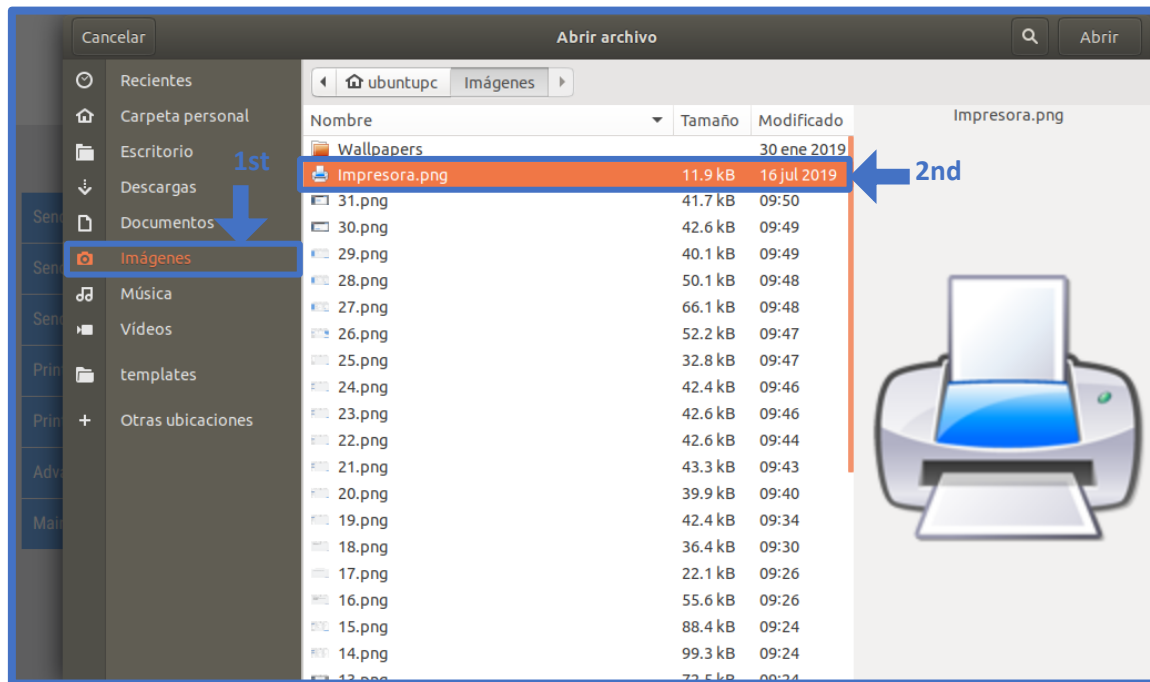
This will open the file explorer of the operating system to select the file.

Therefore, the user has access to the image files saved on the computer from which they access this window. (And, therefore, a user operating remotely, cannot select logos that are inside the balance's own storage).

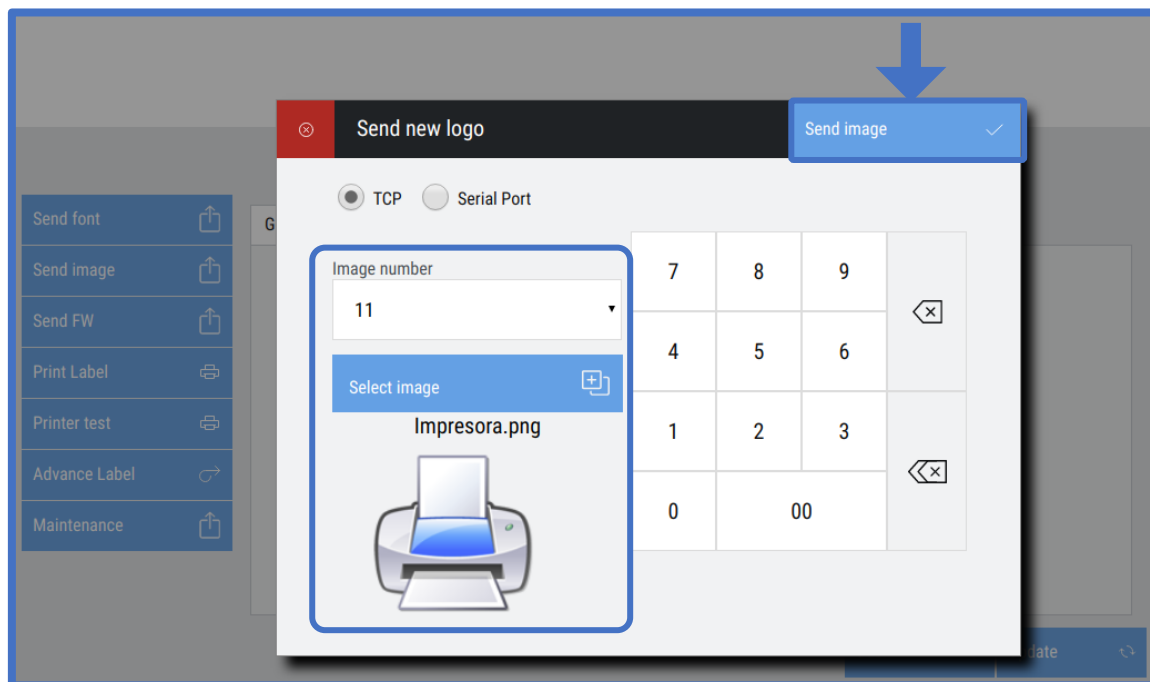
To select the image file (logo), press twice in a row on it.

In addition to this, you must choose a unique identifier for the logo, whose value must be between 11 and 999.

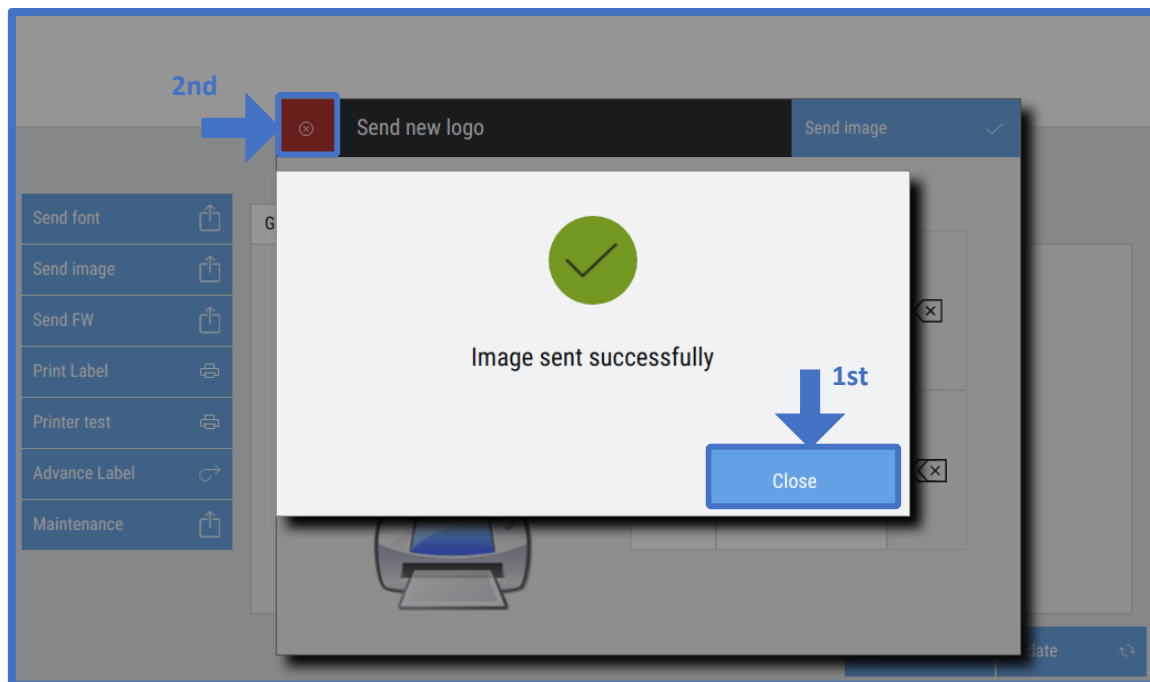
NOTE: The image Will have a maximum image size up to 1200px width and height.



Once the logo is selected, the user will get a preview of it and can send the logo by clicking the button with the same name.

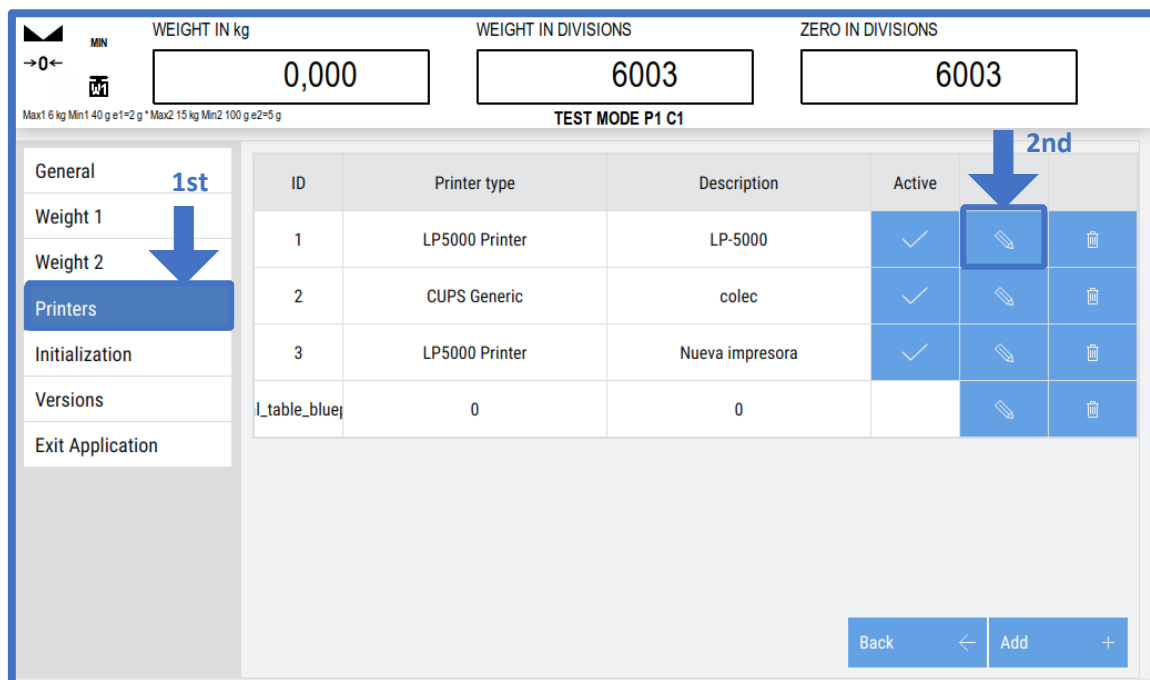


Once the logo has been successfully sent to the printer, a notification to the user will be displayed.



1.3.6 Loading firmware printer

Select "Printers" and then click on the "Pencil" box (modify button).



Click on "Send FW".

PRINTER HEAD TEMPERATURE

28

PRINTER OPTO SENSOR

215

RIBBON OPTO SENSOR

242

TEST MODE

Description: LP-5000

Send font

Send image

Send FW

Print Label

Printer test

Advance Label

Maintenance

General

Sensors

Communication

Contrast

- 9 +

Distance from exit

- 150 +

Distance of opto-head

- 0 +

Header mode

Don't go back and print

Print speed

High

Horizontal align

Center

Thermal header

8 dots

Horizontal offset

- 0 +

Vertical offset

- 0 +

Paper rewinder

On (0ms)

Ribbon rewinder

☒

Back

Update

Enter password; dibalfw1985 and click on "Continue".

PRINTER HEAD TEMPERATURE

28

PRINTER OPTO SENSOR

215

RIBBON OPTO SENSOR

242

TEST MODE

Description: LP-5000

Send font

Send image

Send FW

Print Label

General

Sensors

Communication

Contrast

- 9 +

Distance from exit

- 150 +

Distance of opto-head

- 0 +

Header mode

Don't go back and print

Print speed

High

Horizontal align

Center

Thermal header

8 dots

Horizontal offset

- 0 +

Vertical offset

- 0 +

Paper rewinder

On (0ms)

Ribbon rewinder

☒

Back

Update

1st

Cancel

Continue

2nd

Continue

q w e r t y u i o p

7 8 9

a s d f g h j k l ñ

4 5 6

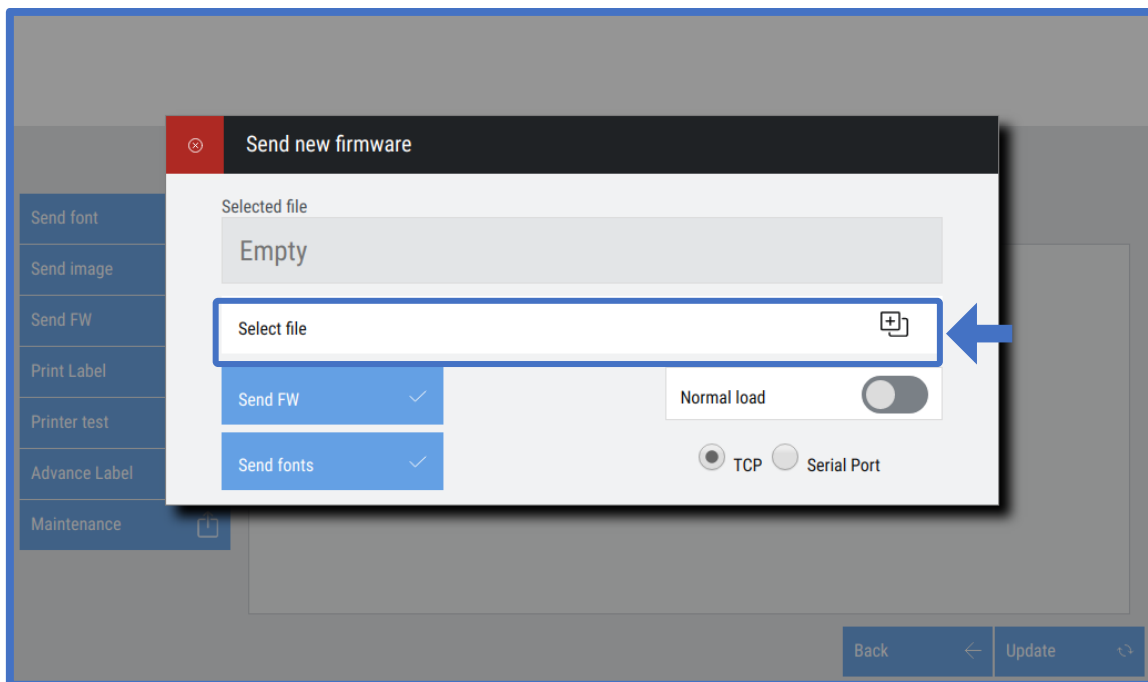
z x c v b n m , + ç `

1 2 3

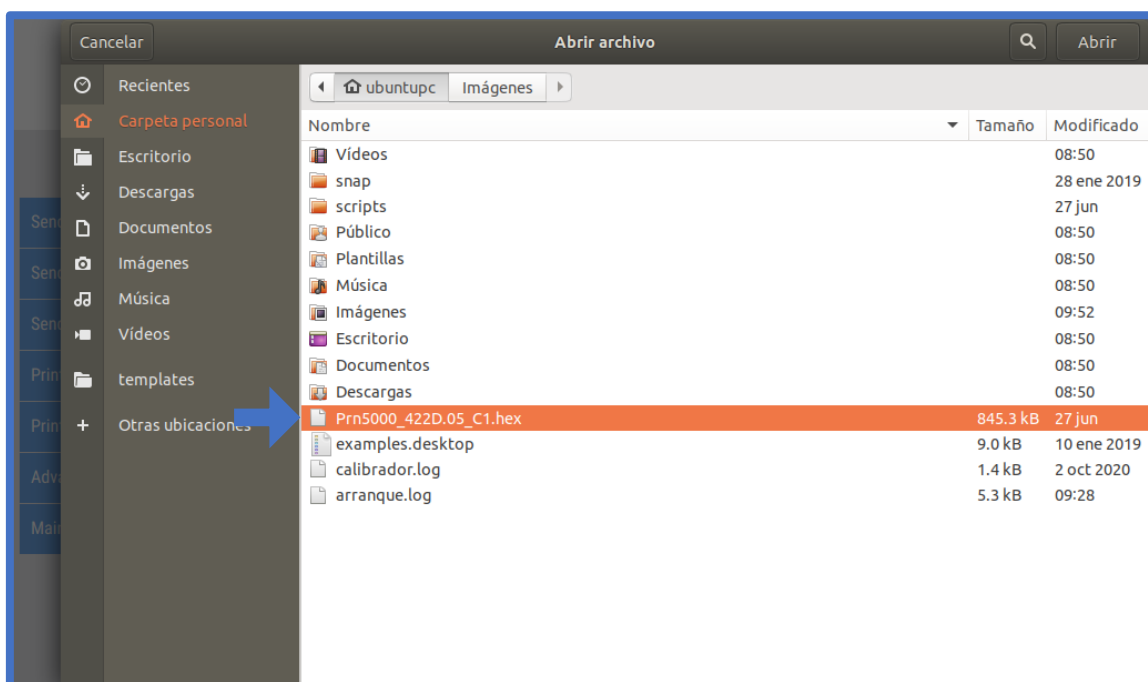
#+= []

0 .

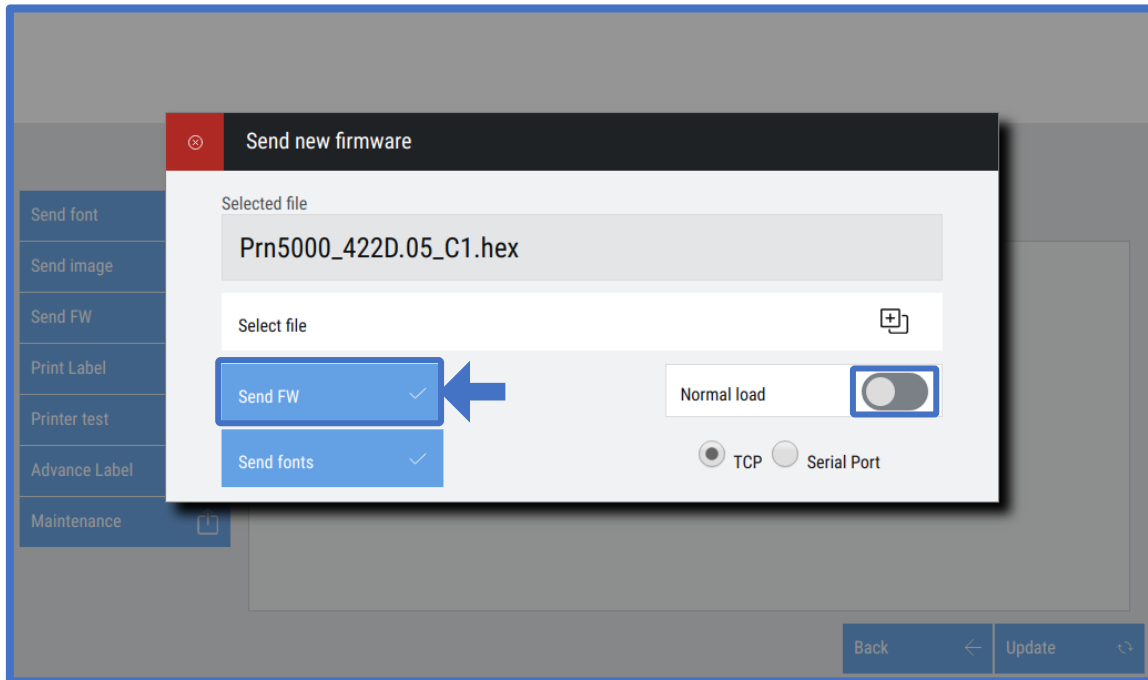
Click on "Select File".



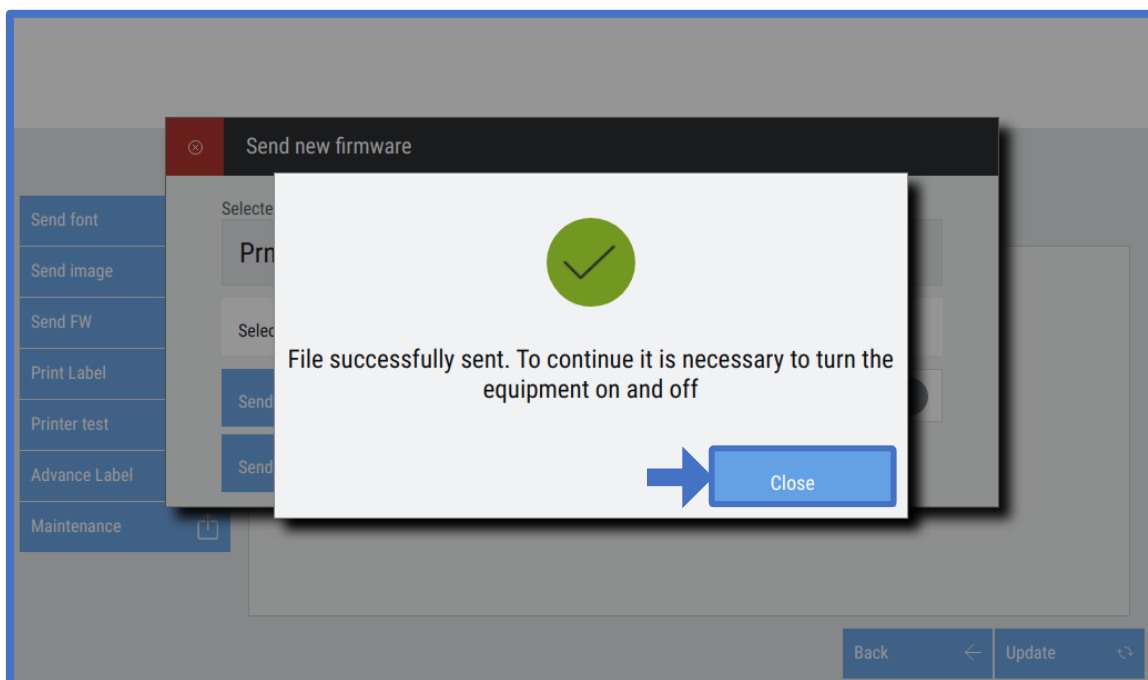
Find and select the firmware file. It should be the only file with the extension .hex. Double-click on it.



Click on "Send FW". Note: If it gives error, press the "Normal load" button, and so put the option "Recovery load".



After a wait of about 3 and a half minutes the next window will appear. Finally, press "Close" and turn off and turn on the computer.



1.3.7 Setting of Multiple Printers

1.3.7.1 Access from Technical Menu

When accessing the test and adjustment mode (User and password "tech"), a table will be displayed with the different printers configured on the LP-5000.

The table shows the following information:

-Unique ID.

-Printer type: field describing the type of printer it is.

-Description: field with an editable description by the user to be able to recognize it easily.

-Activate (check mark): button to enable or disable a printer to display it or not in operation.

-Edition (Pencil): Button to access the printer settings of the corresponding row.

-Erase (Trash): Button to delete the printer from the corresponding row.

In the "Add +" button, you can access the registration of new printers.

Max1 6 kg Min1 40 g e1=2 g *Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1 C1

ID	Printer type	Description	Active		
1	LP5000 Printer	LP-5000	✓		
2	CUPS Generic	colec	✓		
3	LP5000 Printer	Nueva impresora	✓		
l_table_blue	0	0			

Back ← Add +

1.3.7.2 Edition

By clicking on the "Edition" button, you can access the editing of a printer's parameters. Accessing the settings of an LP5000 printer shows the following window:

PRINTER HEAD TEMPERATURE: 28

PRINTER OPTO SENSOR: 215

RIBBON OPTO SENSOR: 242

TEST MODE

Description: LP-5000

Send font, Send image, Send FW, Print Label, Printer test, Advance Label, Maintenance

General, Sensors, Communication

Contrast: - 9 +

Distance from exit: - 150 +

Distance of opto-head: - 0 +

Header mode: Don't go back and print

Print speed: High

Horizontal align: Center

Thermal header: 8 dots

Horizontal offset: - 0 +

Vertical offset: - 0 +

Paper rewinder: On (0ms)

Ribbon rewinder: ☒

Back, Update

And with each type of printer is shown its corresponding type of configuration.

Important to note that until the update button is pressed, the settings are not sent to the printer and therefore have no effect on the printing tests.

1.3.7.3 Creation

In the printer management view you can register a new printer.

Clicking on the "Add +" button opens a new window with a drop-down list of the type of printers that can be registered, with the LP5000 printer enabled.

WEIGHT IN kg: 0,000

WEIGHT IN DIVISIONS: 6003

ZERO IN DIVISIONS: 6003

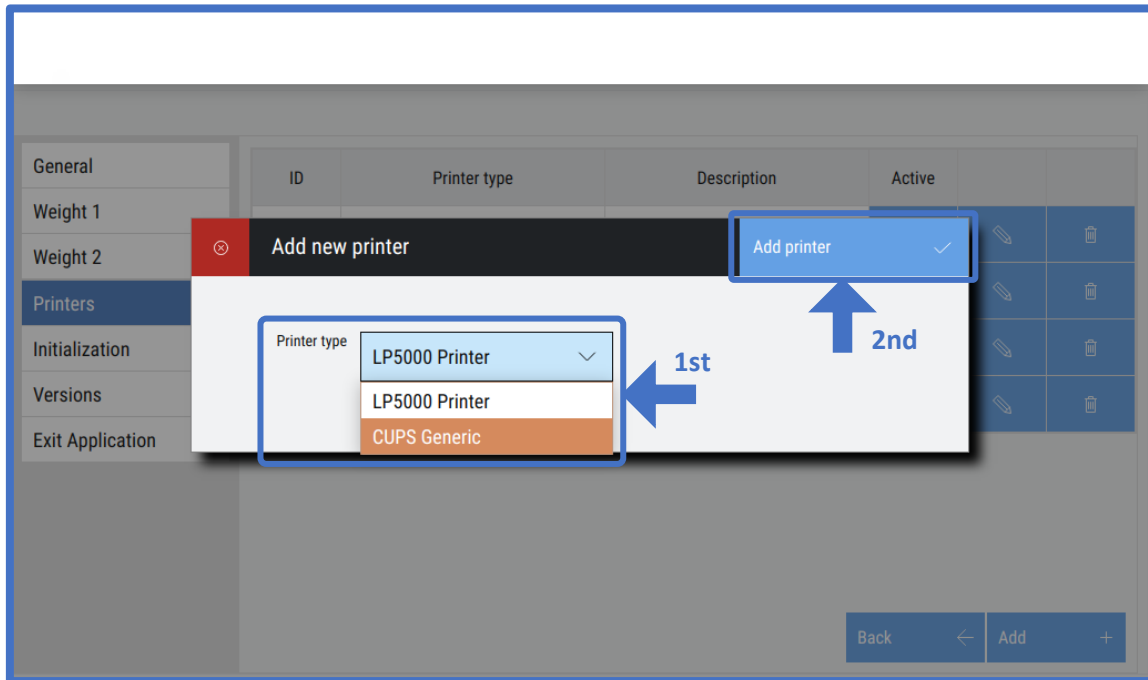
TEST MODE P1 C1

General, Weight 1, Weight 2, Printers, Initialization, Versions, Exit Application

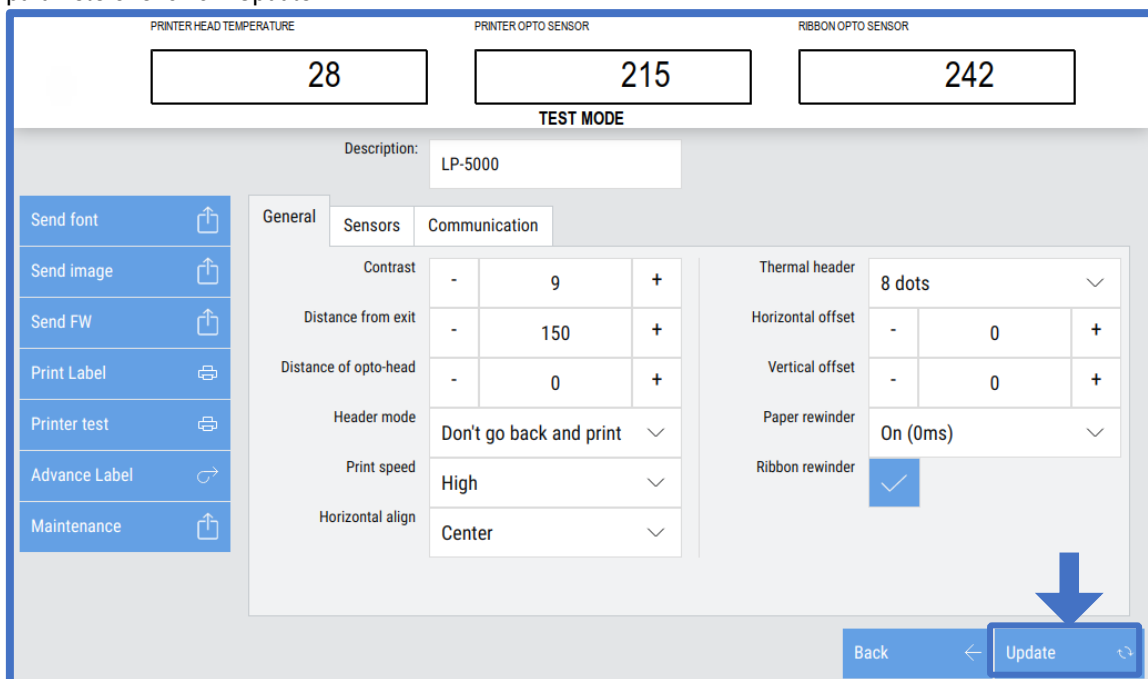
ID	Printer type	Description	Active		
1	LP5000 Printer	LP-5000	☒		
2	CUPS Generic	colec	☒		
3	LP5000 Printer	Nueva impresora	☒		
0					

Back, Add +

The list of printers that are allowed to register is found in the code.
At the moment only the printer types LP5000 and CUPS can be added.



When you add a printer, you access the printer management view from which you can configure its parameters. Click on "Update".



For the added CUPS printers, a selector will appear to associate the added printer with one of the printers configured in CUPS from the system.

Note: How to register a printer in CUPS is explained in the ZPL printer section.

The screenshot shows a configuration screen for a printer. On the left, there are two buttons: "Print Label" with a printer icon and "Advance Label" with a circular arrow icon. The main area has a "Description:" field with the value "colec". Below this is a dropdown menu for "CUPS Printer ID" with the option "Without value" selected. Other settings like "Size", "Contrast", "Print speed", "Label printer mode", and "Paper Type" also have "Without value" as their current selection. At the bottom right, there are "Back" and "Update" buttons. A blue arrow points down to the "Update" button.

1.3.7.4 Deletion

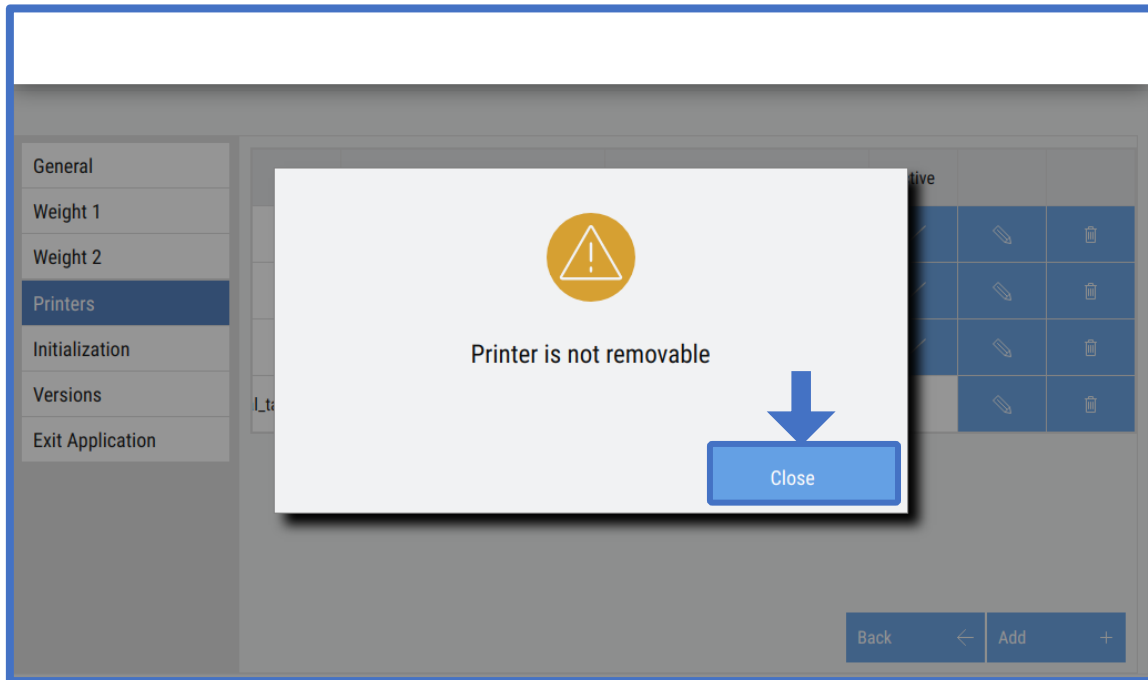
Printers can be removed from the Test and Fit panel by clicking on the "Trash" box.

The screenshot shows the "TEST MODE P1 C1" screen. At the top, there are three input fields: "WEIGHT IN kg" with "0,000", "WEIGHT IN DIVISIONS" with "6003", and "ZERO IN DIVISIONS" with "6003". Below these is a table with the following data:

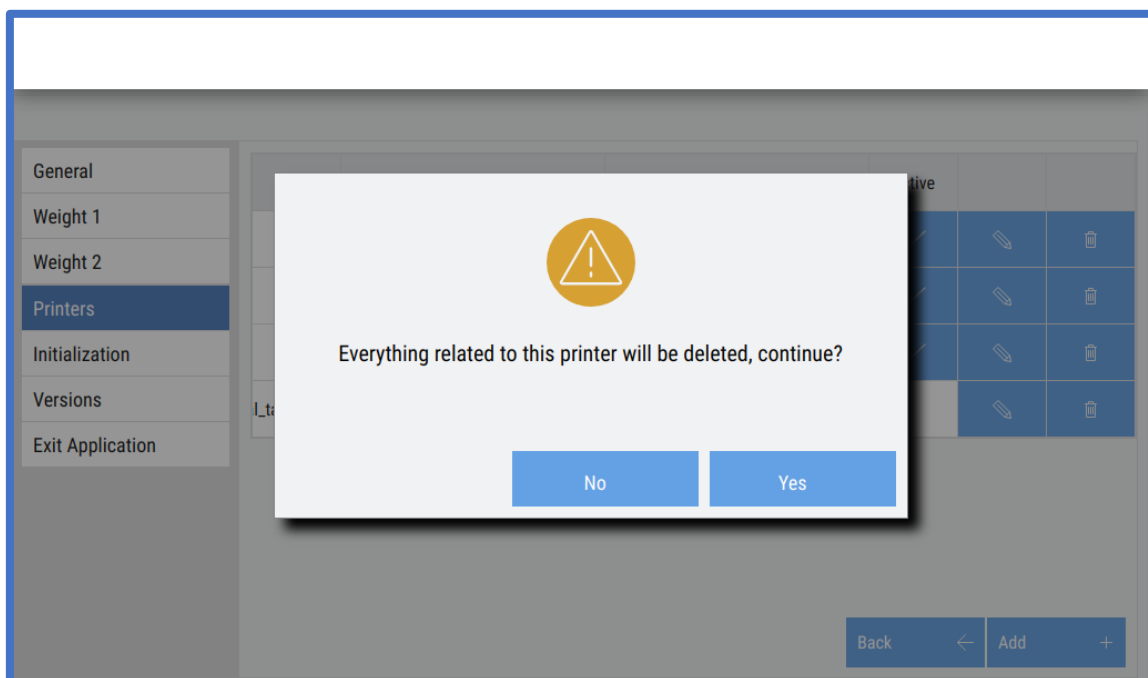
ID	Printer type	Description	Active		
1	LP5000 Printer	LP-5000	✓		
2	CUPS Generic	colec	✓		
3	LP5000 Printer	Nueva impresora	✓		
l_table_blue	0	0			

On the left side, there is a sidebar menu with options: "General", "Weight 1", "Weight 2", "Printers" (highlighted), "Initialization", "Versions", and "Exit Application". At the bottom right, there are "Back" and "Add" buttons. A blue arrow points up to the trash icon in the last row of the table.

The default printers configured in the labeller a parameter (removable) that prevents a user from removing them. A warning message will be shown if the user tries to delete one of these printers.



If the printer to be removed is removable, it will be removed the printer and all of its settings and associations. A warning message will be shown to confirm the deletion of the printer.



1.3.7.5 Use from Management menu

By accessing the print settings from Management, you can select which printer will be used for each type of document. Showing only those that are enabled in Test and Adjustments. Accessed from Configuration-> Print-> Invoices.

General	Templates	Print	Equipment	Communication	Facility	Totals	Checkweigher	Traceability
Labels Totals Level 1 Totals Level 2 Totals Level 3 Printer Contrast Distance from exit Distance of opto-head Header mode Print speed Horizontal align Paper rewriter Ribbon rewriter 1 - LP-5000 1 - LP-5000 2 - colec 3 - Nueva impresora - 0 + Don't go back and print High Center On (0ms) ☒ Thermal header Horizontal offset Vertical offset Frontier No paper Paper mode Label out opto Low paper opto 8 dots - 0 + - 0 + - 160 + - 30 + Regular ☐ Open door opto ☐ Ribbon opto ☒ Advance paper Print BMP								

Back

Update

Changing the printer type will also change the settings displayed:

General	Templates	Print	Equipment	Communication	Facility	Totals	Checkweigher	Traceability
Labels Totals Level 1 Totals Level 2 Totals Level 3 Printer Contrast Distance from exit Distance of opto-head Header mode Print speed Horizontal align Paper rewriter Ribbon rewriter 3 - Nueva impresora - 5 + - 80 + - 10 + Don't go back neither prir Medium Center On (0ms) ☐ Thermal header Horizontal offset Vertical offset Frontier No paper Paper mode Label out opto Low paper opto 8 dots - 0 + - 0 + - 205 + - 60 + Regular ☐ Open door opto ☒ Ribbon opto ☒ Advance paper Print BMP								

Back

Update

1.3.7.6 ZPL Printers

This is the menú for configuring CUPS printers with the ZPL driver. The available settings are the following.

The screenshot shows the CUPS printer configuration web interface. On the left, there are two buttons: 'Print Label' with a printer icon and 'Advance Label' with a circular arrow icon. The main area contains a form for configuring a printer. At the top, the 'Description' field is set to 'Bixolon'. Below this, the 'CUPS Printer ID' is 'BIXOLON_XTS-40'. Other settings include 'Size' (198x90), 'Contrast' (12), 'Print speed' (10), 'Label printer mode' (Signal), and 'Paper Type' (Saved). At the bottom right, there are 'Back' and 'Update' buttons.

NOTE: The settings saved in the application are not displayed on the CUPS website.

1.3.7.7 Creation of ZPL printer in CUPS

The only browser supported for this operation is Firefox. In Firefox you must navigate to

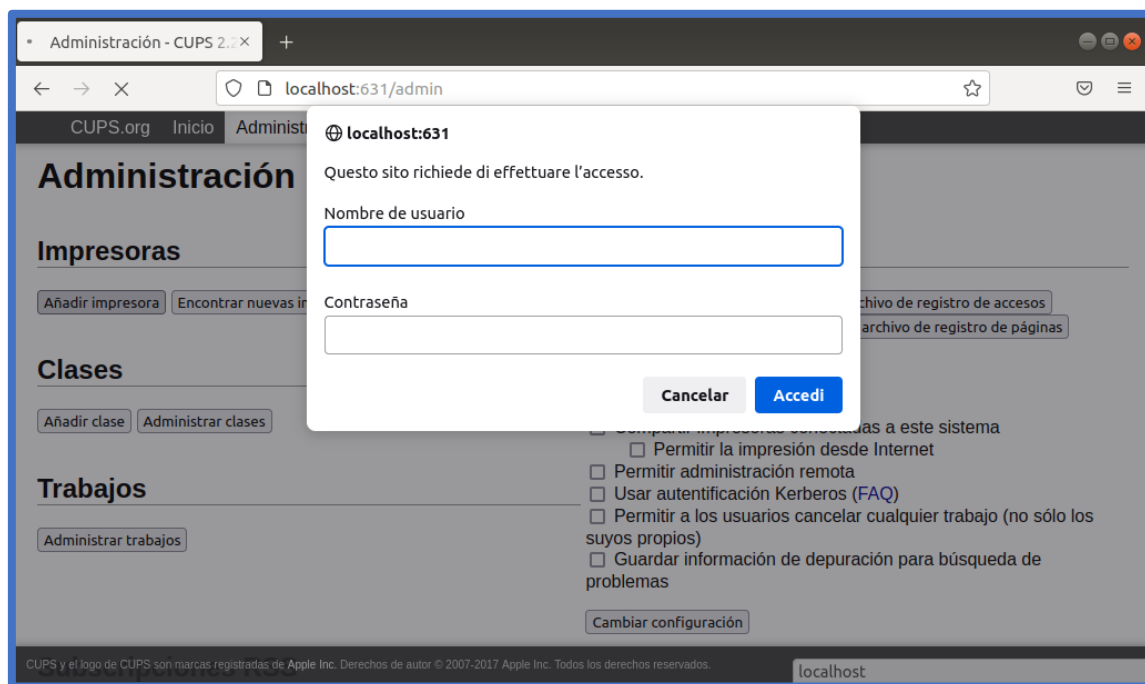
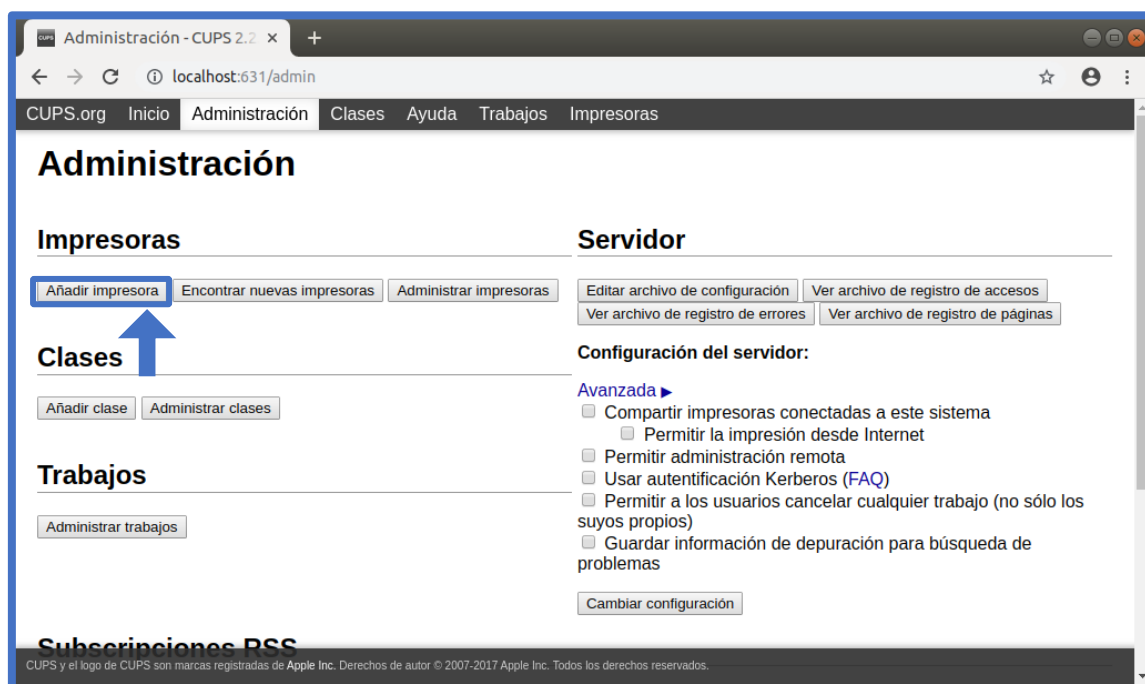
<http://localhost:631>

The first step is to access the administration tab

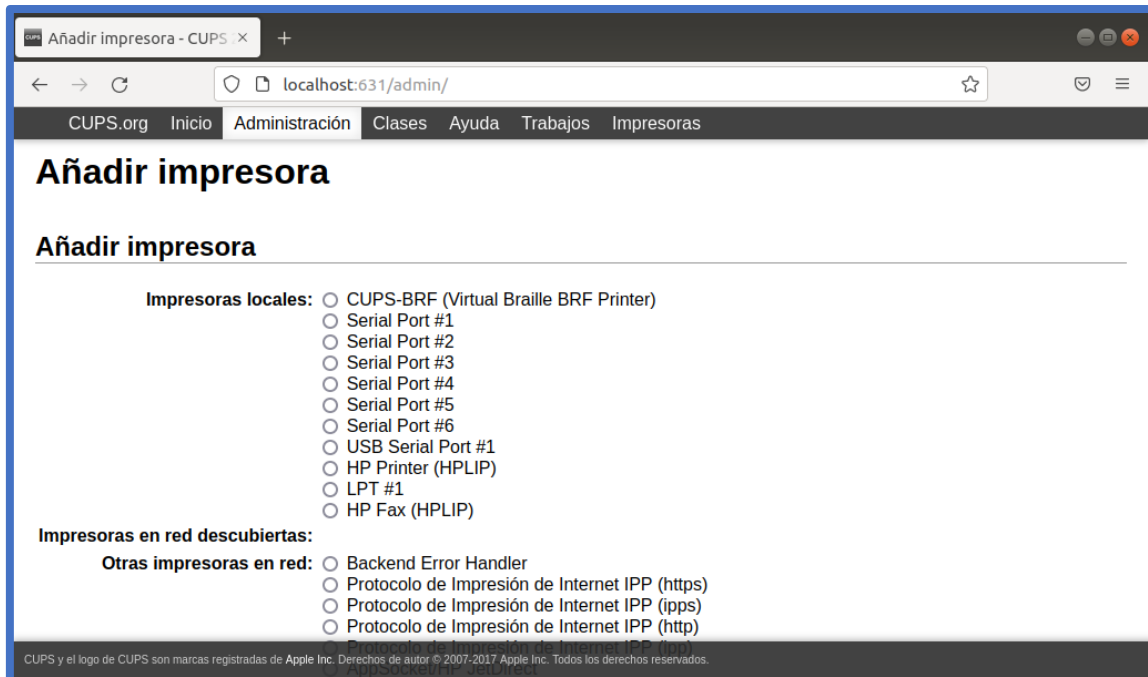


From here you access "Add printer". Firefox will request credentials to perform this action, enter the following data:

-User: ubuntupc -Password: ubuntupc



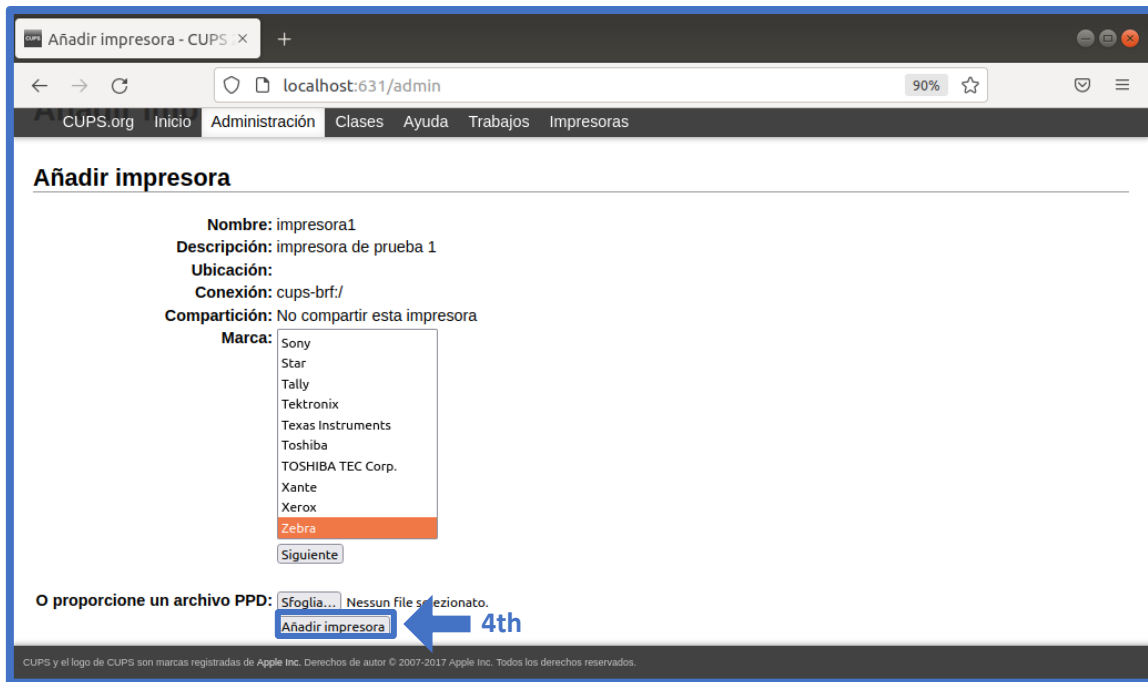
At the time of adding the printer, it can be connected in multiple ways (USB, Network, Series...) choose the right printer and protocol. (If the printer is connected by USB, it should appear in the section of local printers as seen in the example).



Then ask to add a name and description. From here only the name that is given to is relevant, because it is the ID with which CUPS will identify the printer, and the one that we will use to register the printer within the application.

The next step involves indicating the driver to be used. Choose the driver from the brand "Zebra" and as model the "Zebra ZPL Label Printer(en)". Then click on "Add Printer".

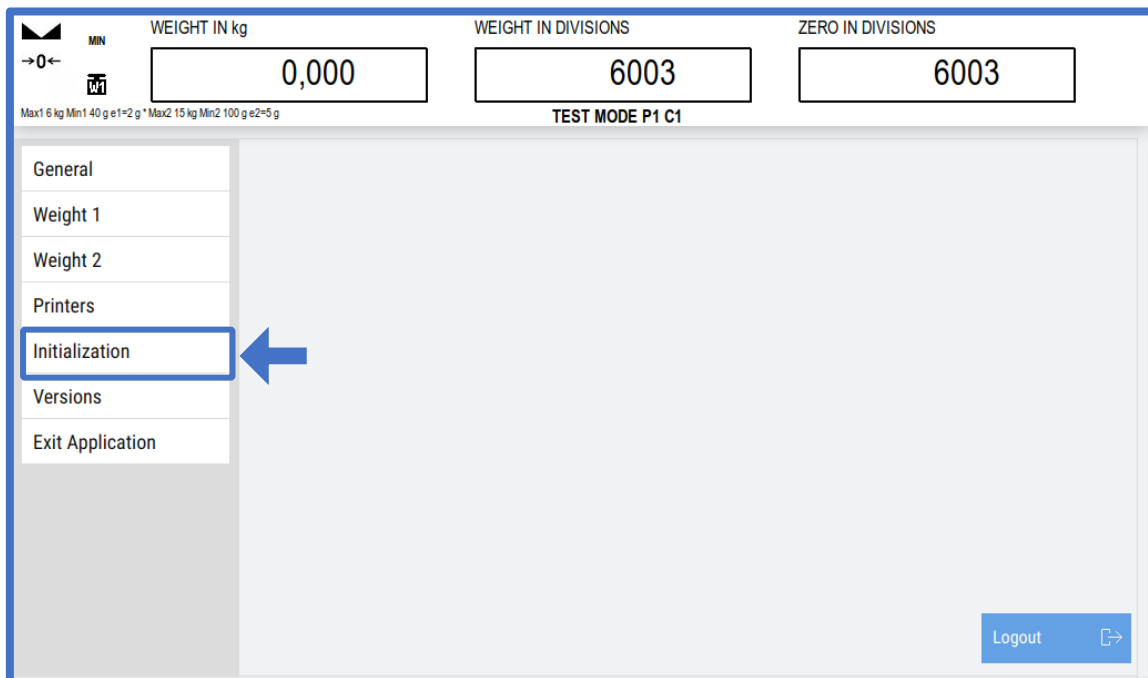




With this, the printer is registered in CUPS and can be registered in the application.

1.4 Initialization

Select "Initialization".



1.4.1 Force data initialization

Select "Force data initialization".

The screenshot shows the LP-5000 interface with the following elements:

- Top Bar:** Contains three input fields: "WEIGHT IN kg" (0,000), "WEIGHT IN DIVISIONS" (6003), and "ZERO IN DIVISIONS" (6003). Below these fields is the text "Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g" and "TEST MODE P1 C1".
- Left Menu:** A vertical list of options: General, Weight 1, Weight 2, Printers, Initialization, Force data initialization, Force files initialization, Versions, and Exit Application. The "Initialization" option is highlighted in blue, and a blue arrow points to the "Force data initialization" option.
- Right Panel:** A large, empty gray area.
- Bottom Right:** A "Logout" button with a right-pointing arrow.

1.4.2 Force files initialization

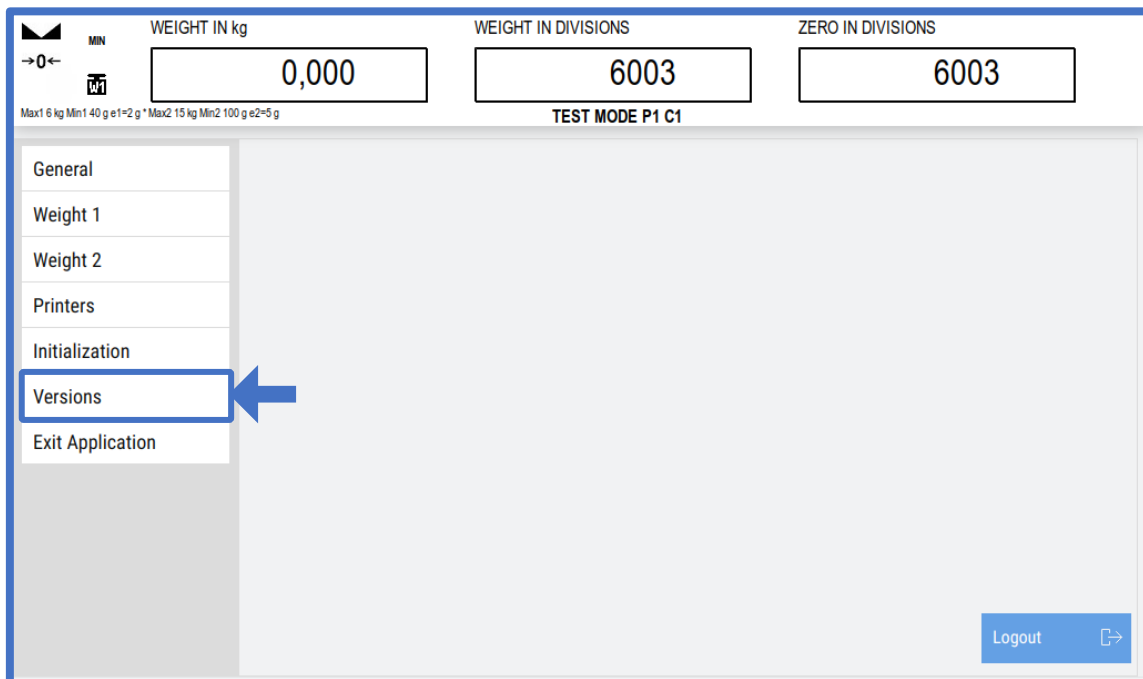
Select "Force files initialization".

The screenshot shows the LP-5000 interface with the following elements:

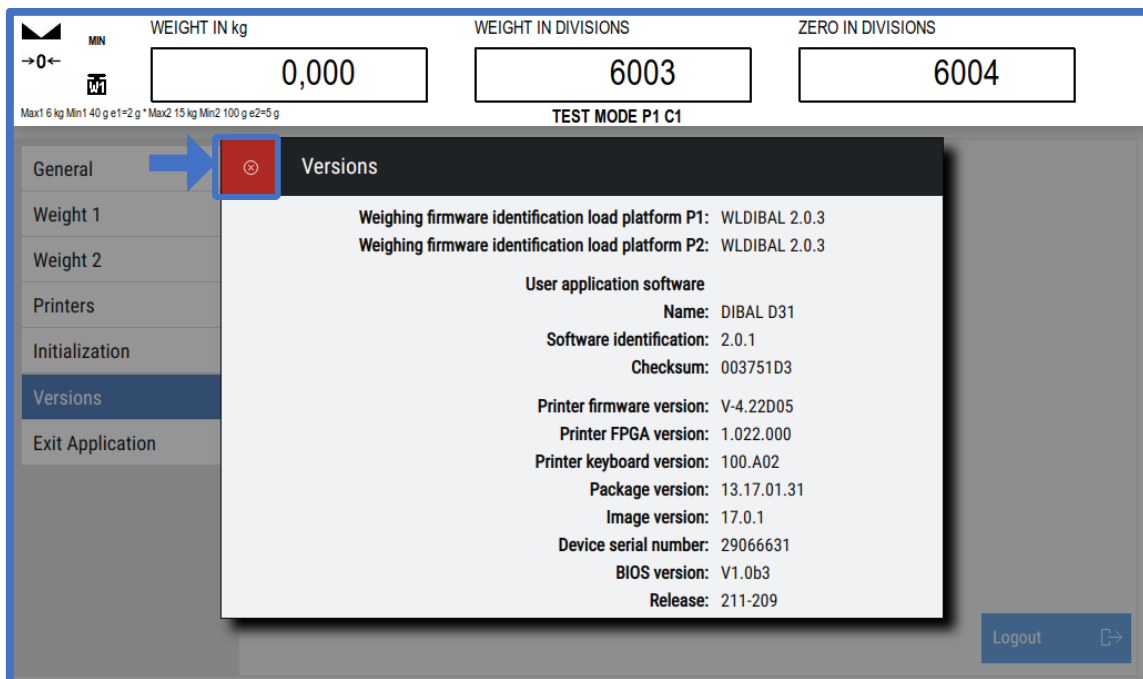
- Top Bar:** Contains three input fields: "WEIGHT IN kg" (0,000), "WEIGHT IN DIVISIONS" (6003), and "ZERO IN DIVISIONS" (6003). Below these fields is the text "Max1 6 kg Min1 40 g e1=2 g * Max2 15 kg Min2 100 g e2=5 g" and "TEST MODE P1 C1".
- Left Menu:** A vertical list of options: General, Weight 1, Weight 2, Printers, Initialization, Force data initialization, Force files initialization, Versions, and Exit Application. The "Initialization" option is highlighted in blue, and a blue arrow points to the "Force files initialization" option.
- Right Panel:** A large, empty gray area.
- Bottom Right:** A "Logout" button with a right-pointing arrow.

1.5 Versions

Select "Versions".



Window display. The different values/versions of the different installations of the labeller are shown. Press red box to close window and exit.



To exit TECH mode, click on "Logout".

MIN
→0←

WEIGHT IN kg

0,000

WEIGHT IN DIVISIONS

6003

ZERO IN DIVISIONS

6003

Max1 6 kg Min1 40 g e1=2 g *Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1 C1

General

Weight 1

Weight 2

Printers

Initialization

Versions

Exit Application

Logout

1.6 Exit application

Select "Exit Application".

MIN
→0←

WEIGHT IN kg

0,000

WEIGHT IN DIVISIONS

6003

ZERO IN DIVISIONS

6003

Max1 6 kg Min1 40 g e1=2 g *Max2 15 kg Min2 100 g e2=5 g

TEST MODE P1 C1

General

Weight 1

Weight 2

Printers

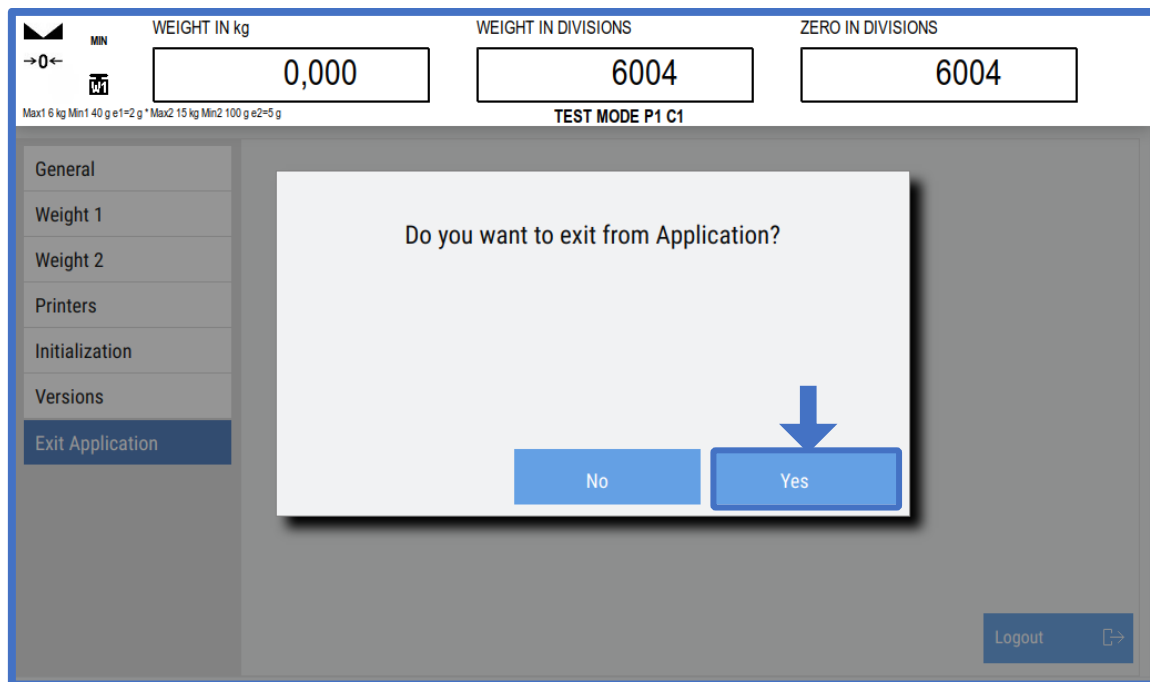
Initialization

Versions

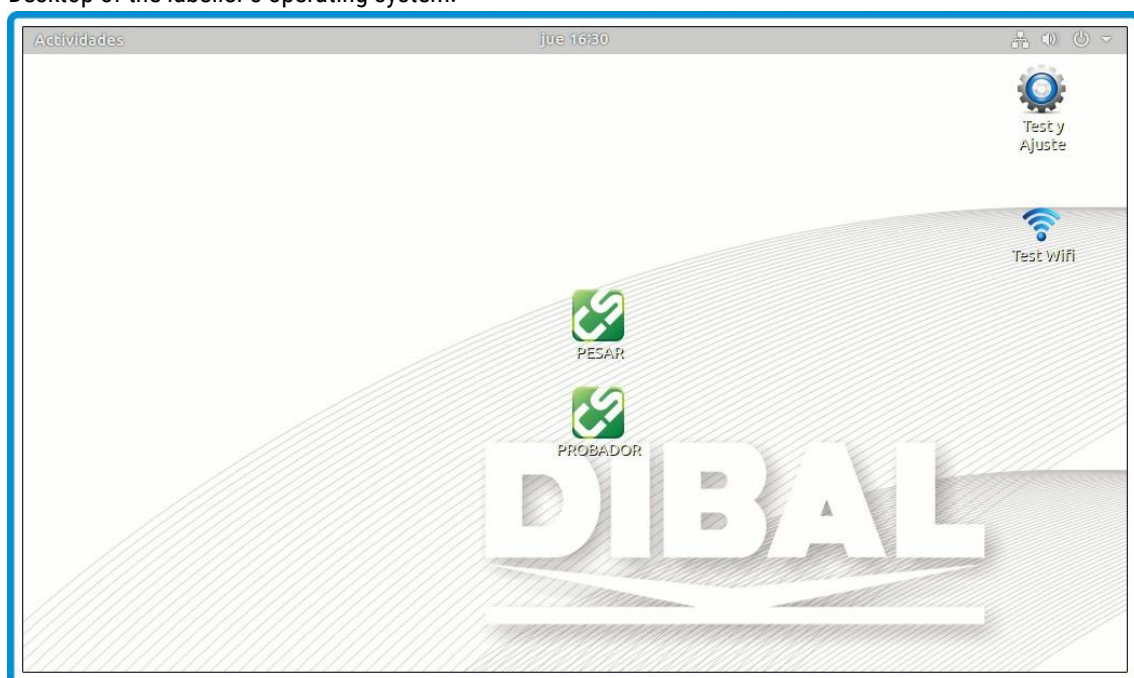
Exit Application

Logout

Click on "Yes".



Desktop of the labeller's operating system.



2. LP-5000 Update

2.1 Software update

2.1.1 Change of IP address of LP-5000

In order to be able to update the balance, the IP address will first be checked.

To do this, use the user "gestion", with its password, "gestion". Click on Configuration and go to the Scale tab to view and modify the IP address of the scale.

General	Templates	Print	Equipment	Communication	Facility	Totals	Checkweigher	Traceability
Equipment number: - 03 + Device name: STC				Equipment IP: 192.168.160.170 Subnet mask: 255.255.254.0 Gateway: 192.168.160.254 DNS: 192.168.160.254 Equipment Network type: ☒ Wired ☐ Wifi				

2.1.2 File transfer

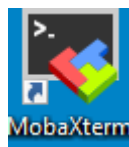
Download the program MobaXterm

<https://mobaxterm.mobatek.net/download-home-edition.html>

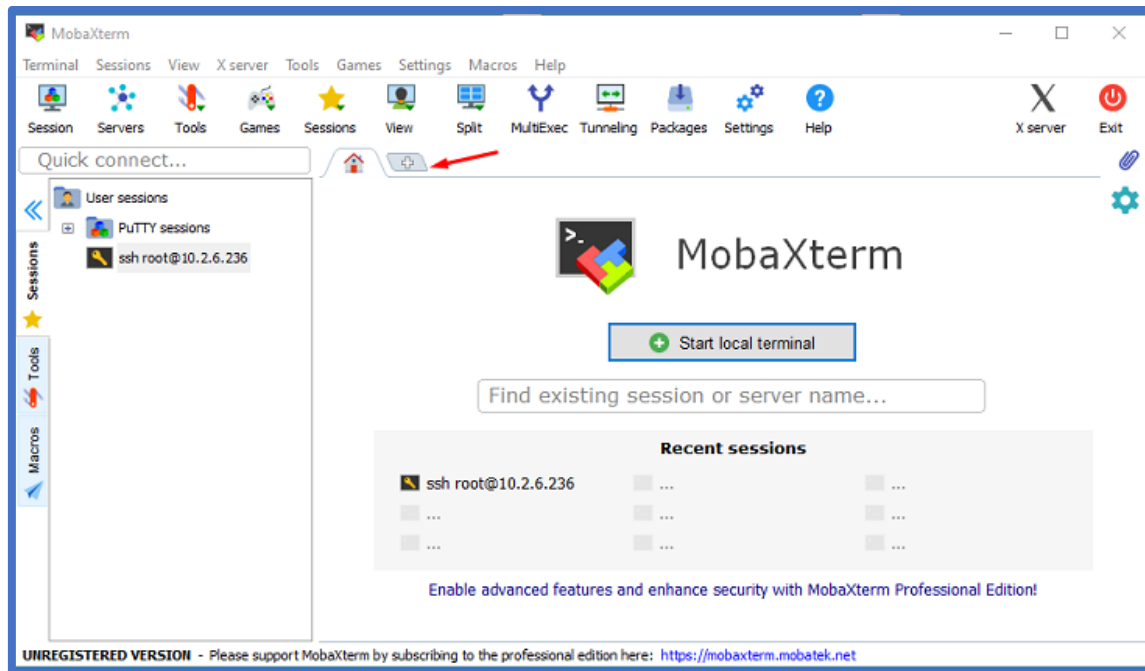
WinSCP

To carry out the transfer of files

1.- Open MobaXterm

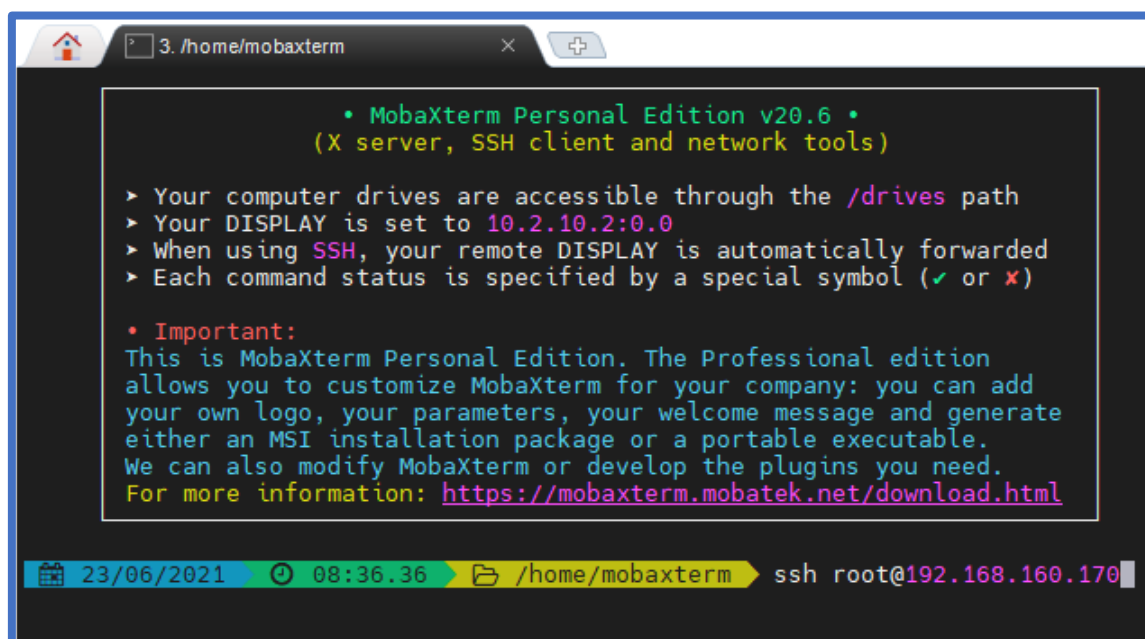


2.- Select Start Local Terminal

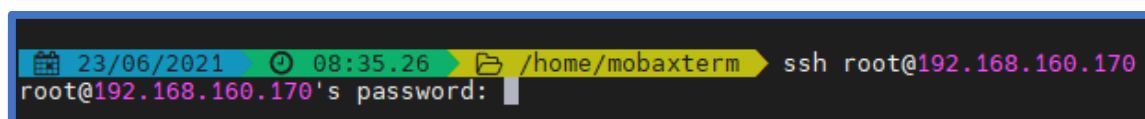


3.- Type the command **ssh root@xxx.xxx.xxx.xxx**

Where xxx.xxx.xxx.xxx is the IP address of the labeller



Then, enter the password: dibal

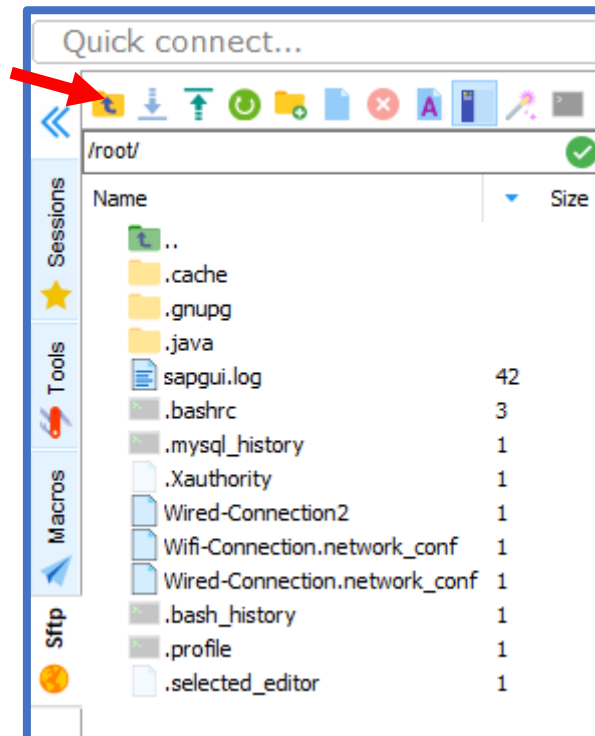
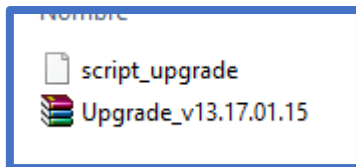


4.- Copy the files with the new version of the software to: `cd /home/ubuntu/Descargas`

The files are called:

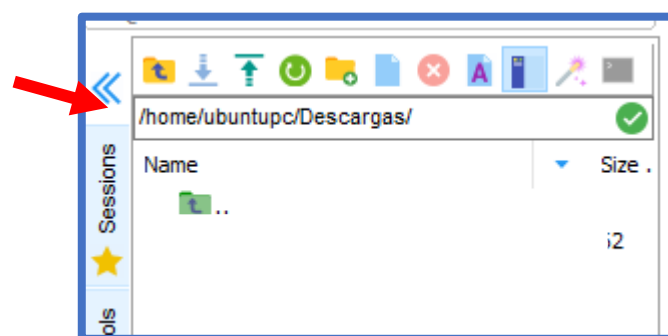
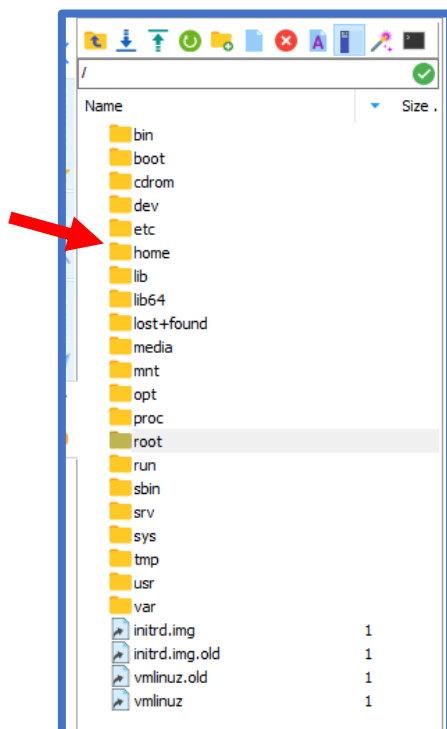
Upgrade X.X.X.X (where X corresponds to the version, ej: 13.17.01.15

script_upgrade

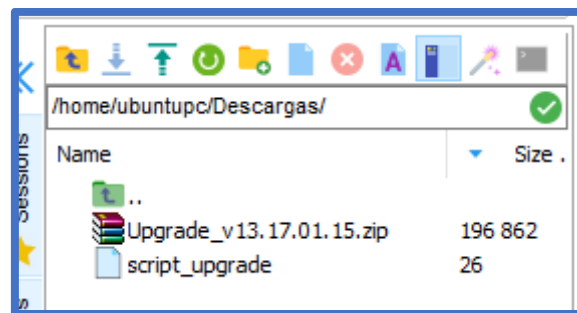


Press Parent directory to move to the top folders.

Click on the selected folder to open it, first home, then ubuntu and finally Descargas



Drag the files from the local folder of the local PC and drop them in the folder.



2.1.3 Update

1.- Execute the script upgrade - `bash ./script_upgrade`

```
root@LP5000L-U:~# bash /home/ubuntu/Descargas/script_upgrade
```

A message will appear on the screen and the computer will restart.



2.2 UPLOAD PRINTER FIRMWARE

2.2.1 File transfer

Transfer the file .hex a /home/ubuntu/c/Descargas

Following the same procedure as described for the labeller software.

2.2.2 Update in LP-5000

1.- On the LP-5000 access Test and Settings via user tech, password tech.

2.- Select the printer tab

The screenshot shows the 'TEST MODE' interface of the LP-5000. At the top, there are three input fields: 'WEIGHT IN kg' with value '0,000', 'WEIGHT IN DIVISIONS' with value '0', and 'ZERO IN DIVISIONS' with value '0'. Below these is a 'Max 0.0 kg Min 0 g e=0.0 g' label. On the left, a sidebar menu includes 'General', 'Printers' (selected), 'Initialization', 'Versions', and 'Exit Application'. The main area displays a table of printers:

ID	Printer type	Description	Active		
1	LP5000 Printer	LP-5000	✓		
2	CUPS Generic	BIXOLON PEQUEÑA	✓		

At the bottom right, there are 'Back' and 'Add' buttons with arrows.

3.- Press Edit

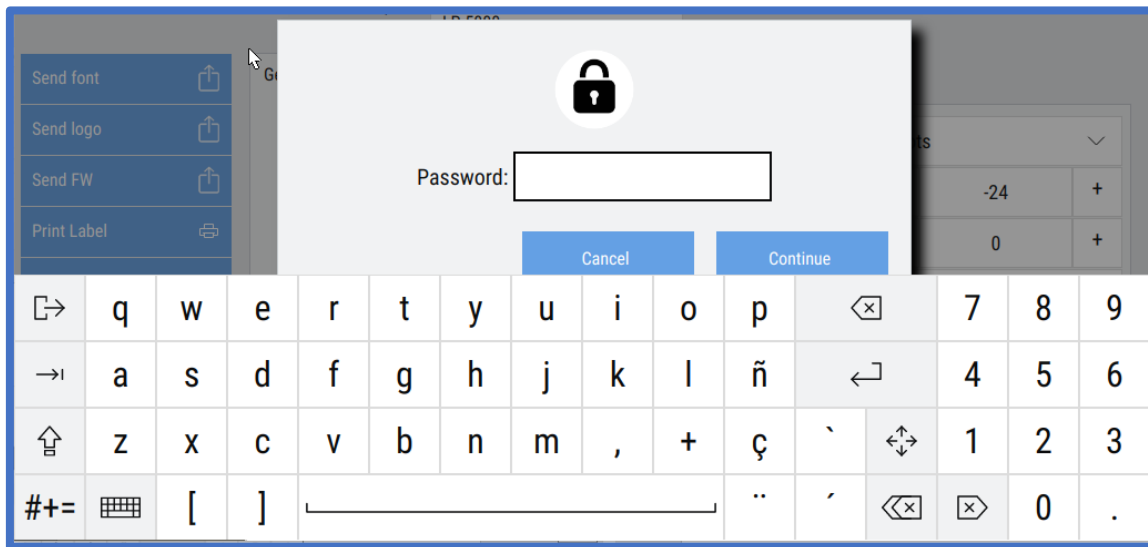
The screenshot shows the 'TEST MODE' interface with the printer settings for 'LP-5000'. At the top, there are three input fields: 'PRINTER HEAD TEMPERATURE' with value '32', 'PRINTER OPTO SENSOR' with value '216', and 'RIBBON OPTO SENSOR' with value '0'. Below these is a 'Description: LP-5000' label. On the left, a sidebar menu includes 'Send font', 'Send logo', 'Send FW', 'Print Label', 'Printer test', 'Advance Label', and 'Maintenance'. The main area displays settings for 'General', 'Sensors', and 'Communication' tabs. The 'General' tab is active, showing settings for Contrast, Distance from exit, Distance of opto-head, Header mode, Print speed, and Horizontal align. The 'Sensors' tab is also visible, showing settings for Thermal header, Horizontal offset, Vertical offset, Paper rewinder, and Ribbon rewinder.

Setting	Value
Contrast	5
Distance from exit	100
Distance of opto-head	-24
Header mode	Go back and print header
Print speed	High
Horizontal align	Right
Thermal header	8 dots
Horizontal offset	-24
Vertical offset	0
Paper rewinder	On (0ms)
Ribbon rewinder	

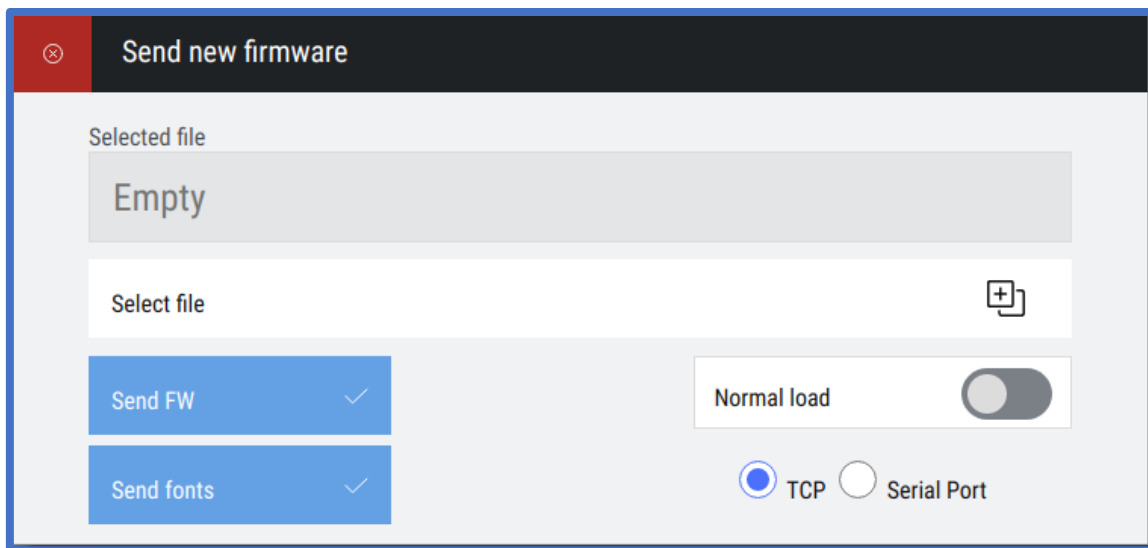
At the bottom right, there are 'Back' and 'Update' buttons with arrows.

4.- Select Send FW

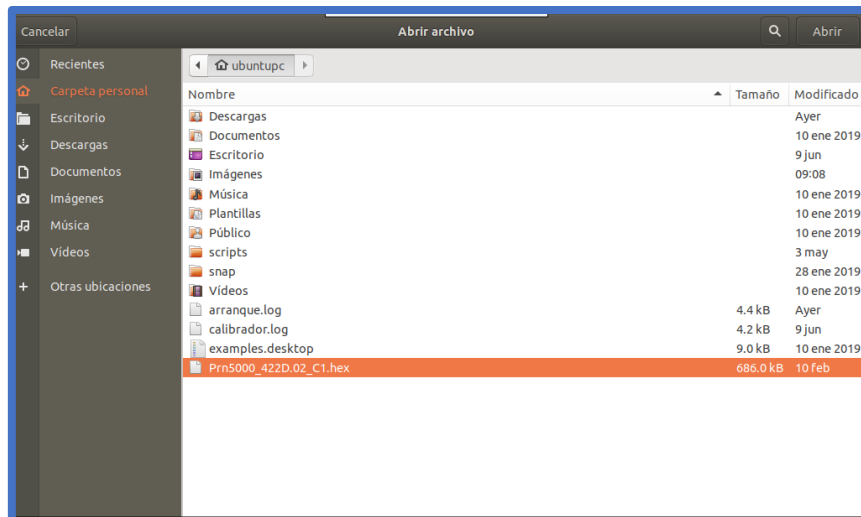
Enter the password: **"dibalfw1985"**.



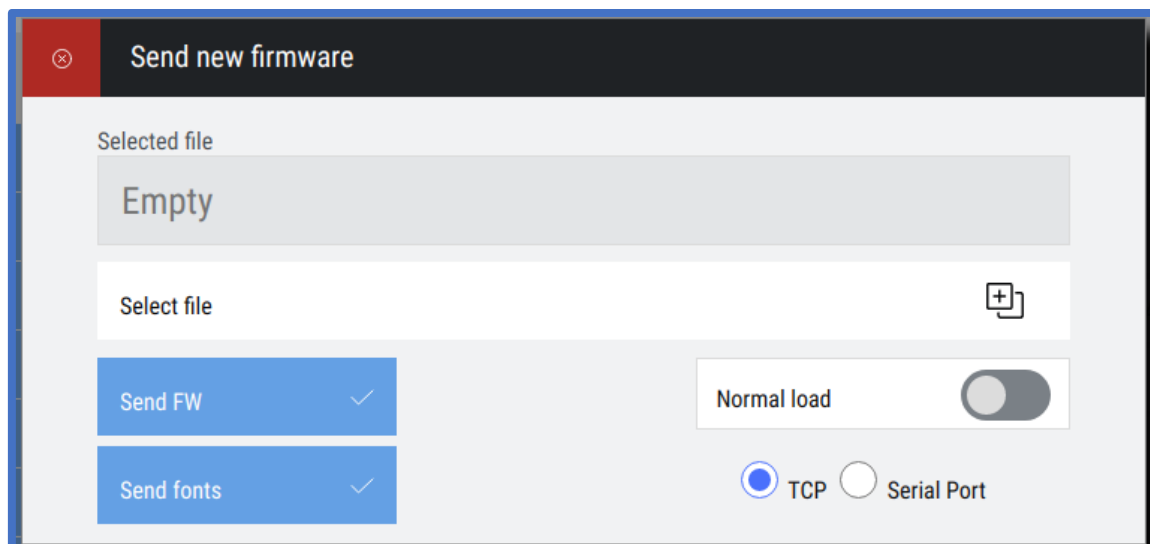
5.- Click on "Select file".



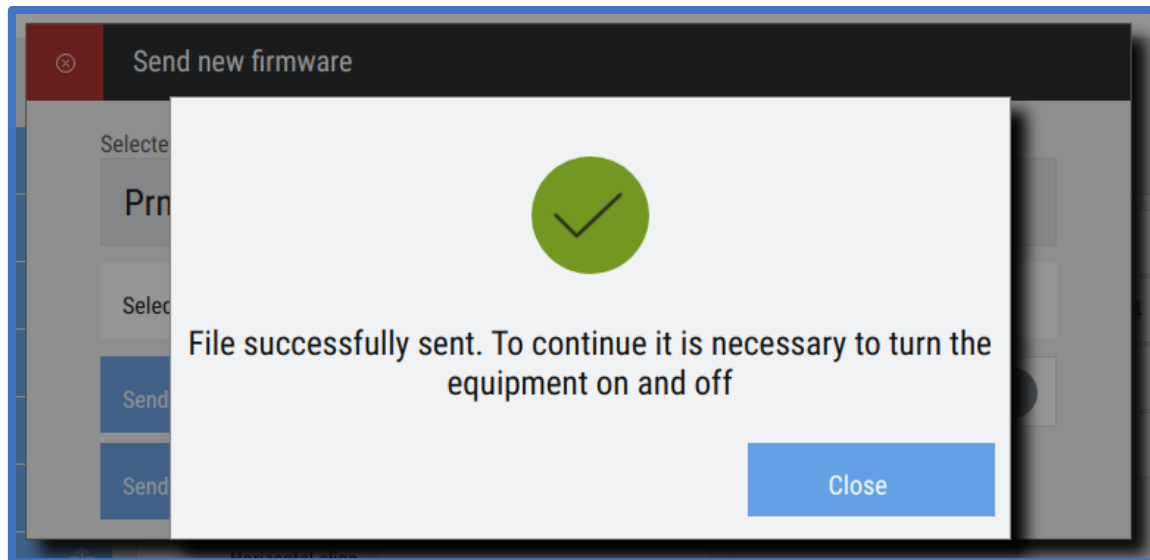
Choosing the firmware file on the LP-5000
It has to be the only file with the extension **.hex**



6.- Finally press the “Send FW” button



After waiting for about 3.5 minutes, a window like the one below will appear:



7.- Switching the labeller off and on.

Polígono Industrial Neinver
Astintze, 26 - 48160 - Derio (Vizcaya),
Spain. Tel: (+34) 944 521 510 Fax: (+34) 944 523 658

