Created by

mot ii

LevelTech®
Industrial Flooring Equipment

LEVELTECH-D
INSTRUCTIONS
V.24.01.1

LevelTech®
Industrial Flooring Equipment

CE

INSTRUCTIONS FOR QUICK USE
CONTENTS

GOOD PRACTICES BEFORE STARTING A MEASUREMENT

- · Paint the lines before starting to measure.
- · Draw the legs for correct calibration.
- · Perform the training mode to familiarize yourself with measuring with the equipment.
- · Close the app after finishing for correct desynchronization with the device.
- · Correct marking of the corners of the boxes.
- · Wait 5 minutes at room temperature where the medication will be applied.

LOGIN & SYNC

We open the app and enter our username and password. You need internet to log in. If you have an incorrect login the following image appears. If you have logged in correctly you will go to **fig.1**

If we have logged in correctly we will see the name of the available devices (**fig.1**)

We click on it and click on connect. If the synchronization has been done successfully, blue lights will flash on the device and a success message will appear in the app (**fig.2**)
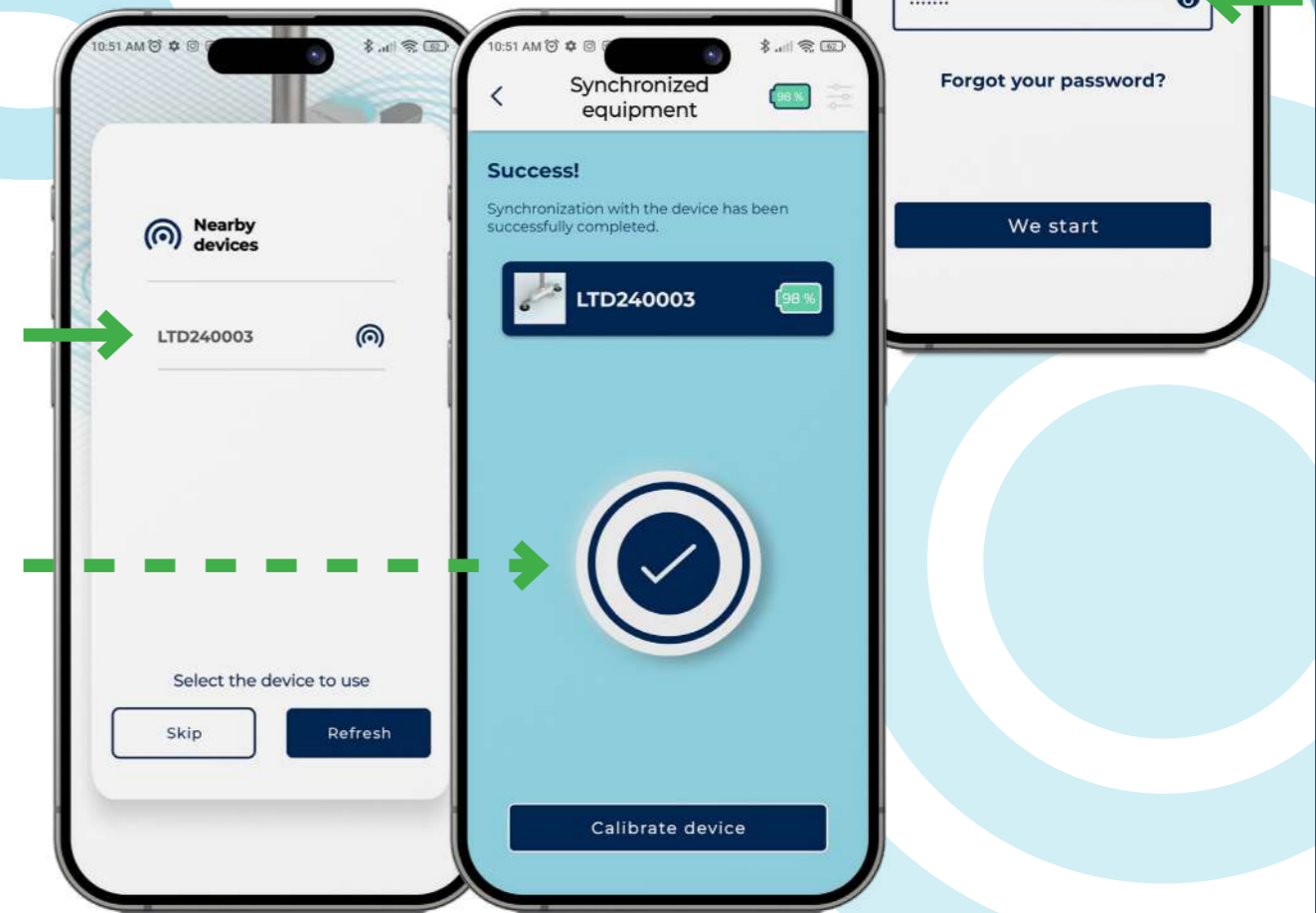

fig.1

fig.2

CALIBRATION

Now we proceed to calibrate the device. We choose the distance between the legs (**fig.3**) already physically placed previously.

We mark with a marker or chalk making a circle on each leg of the device as we see in the image on the left. When we have chosen the distance between the legs and have marked them, we proceed to start (**fig.4**) and the orange lights will turn on indicating that the device is in the middle of a calibration.

Then turn the device 180° and put it in the same position (on the circles of each leg) and press continue (**fig.5**)
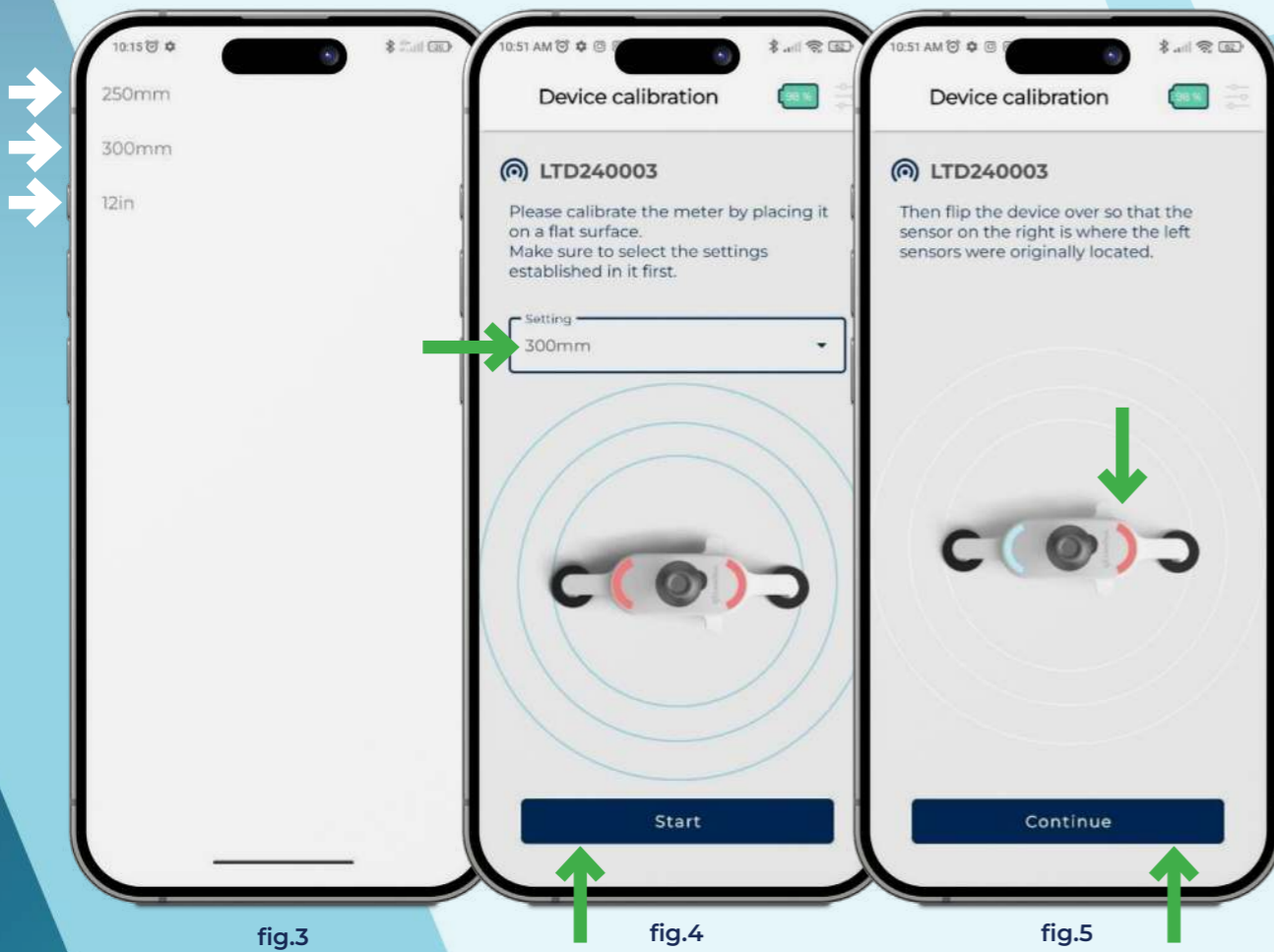
fig.3

fig.4

fig.5

Success!
Device calibrated successfully! We can now continue and/or to measure.

Failed calibration
Something has gone wrong during the calibration process. Please repeat the calibration process again from the beginning.
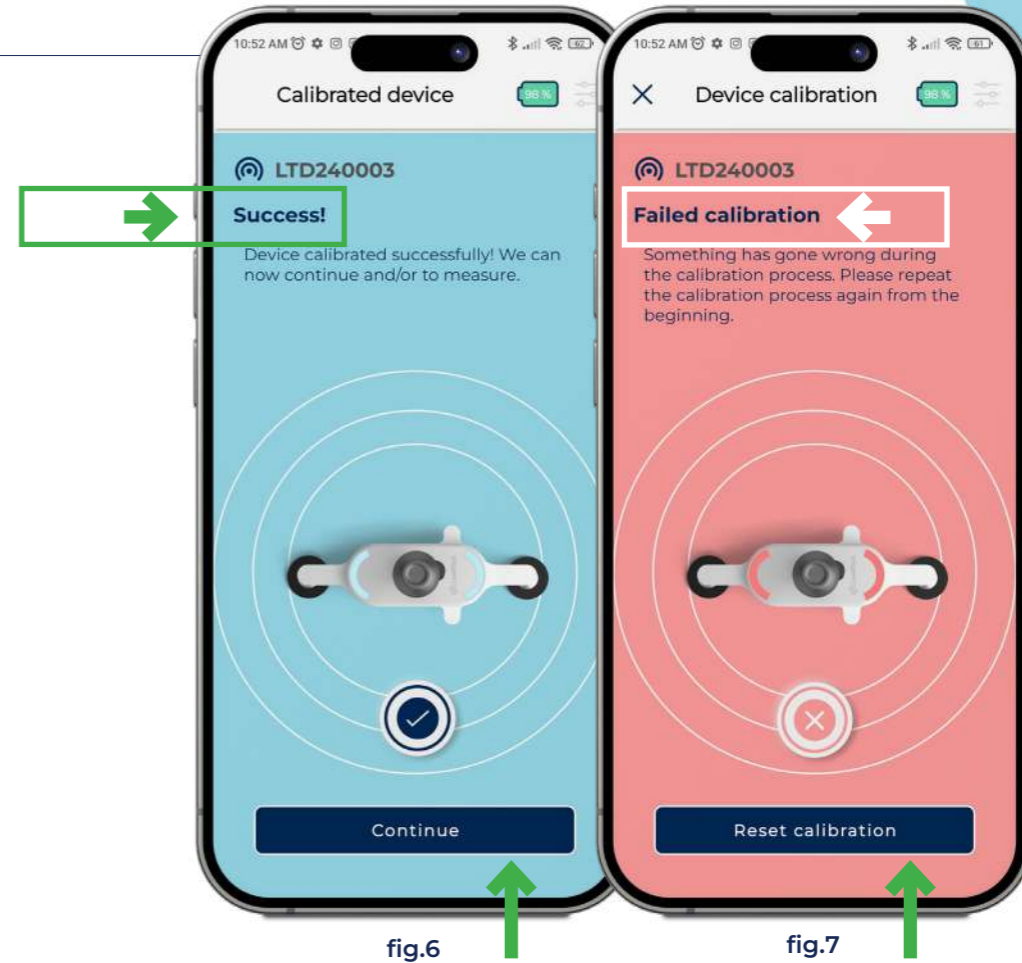
Continue

Reset calibration

fig.6

fig.7

In case of success the orange lights will turn off and the blue light will briefly turn on indicating correct calibration (**fig.6**)

In case of calibration error an message will appear on the display (**fig.7**) and the lights on the device will remain orange indicating that the calibration process must be repeated.

Once calibrated, the app takes us to the main screen (**fig.8**) where we can create a new project, open an existing project, start a measurement without a project or configure the device.
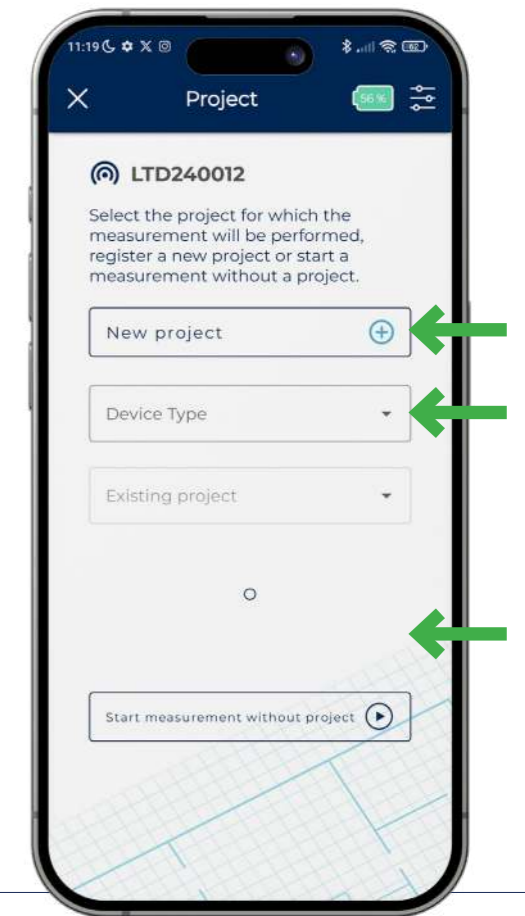
fig.8

CONFIGURATION

We are going to see now some configuration parameters of the device:

If we click on the 3 lines at the top right of the screen (**fig.9**) of start-up we will get a menu (**fig.10**) where we can calibrate the device, change device parameters and check firmware version.

In this menu (**fig.10**) if we click on "device configuration" we can modify the following parameters:

- **Luminosity:** intensity with which the Leds of the device light up value from 0 to 99.
- **Speaker:** to enable or disable the internal speaker of the device.
- **mm range:** to specify to the device what the threshold is for giving you a measurement as "good" or "bad". The range goes from 0 to 5mm. "Good" measurements will be marked with a green flash and "bad" measurements will be marked with a red flash. If for example we have chosen the 3mm range, every time the equipment takes a measurement less than 3mm the green lights of the device will turn on, if it is greater than 3mm the red lights will turn on.
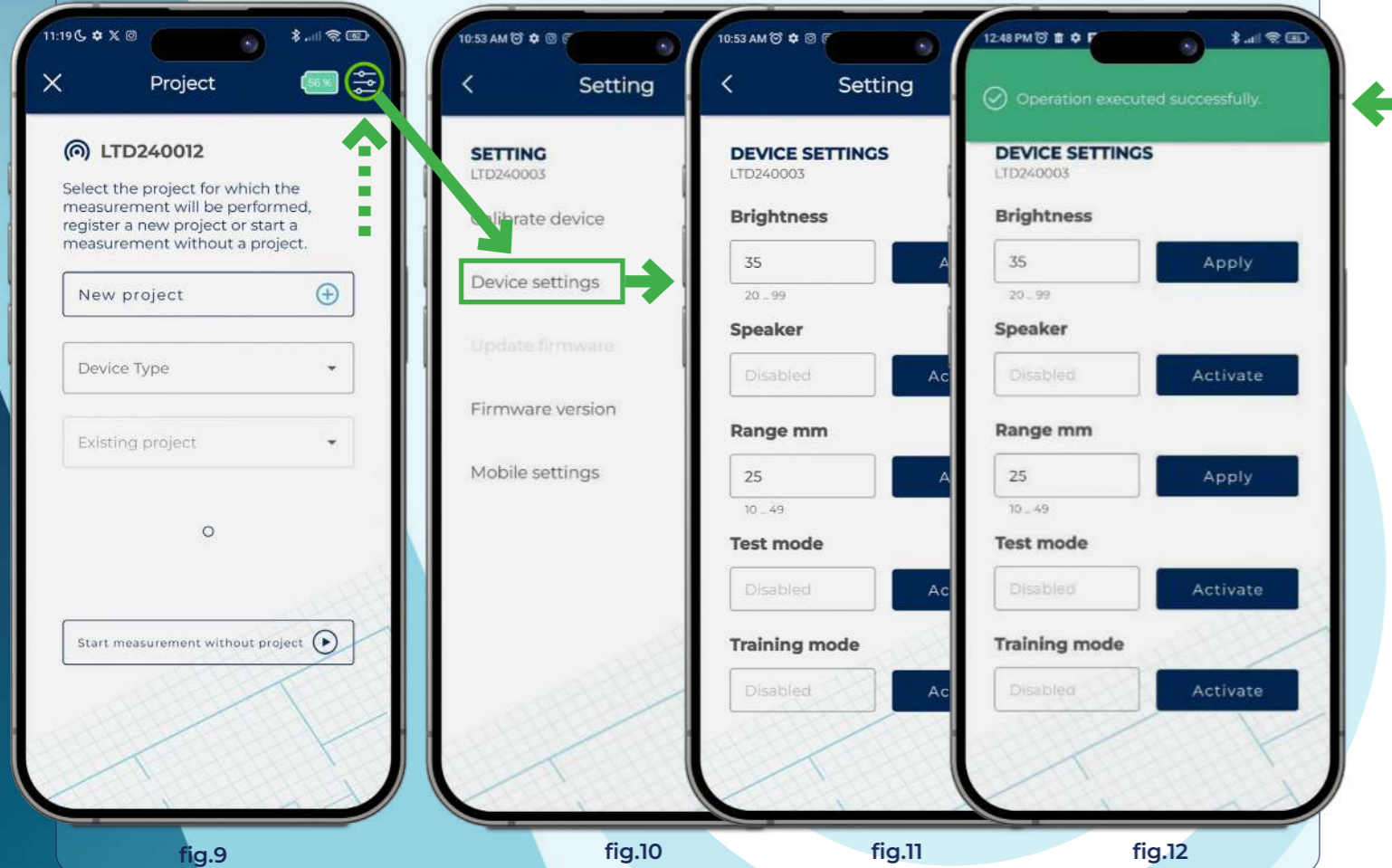
- **Training mode:** To see the deviation in degrees that you have in your measurements. In this mode you will be able to see for each measurement taken the deviation with which you have taken the measurement (**fig.14**). Instead of measuring without project you will see the message training mode (**fig.13**).

Once inside the training mode, we will have 3 lines to measure of 20 steps each. If we complete the 3 lines with an error of less than 1° of deviation, the test mode will open, which consists of making a box and see how much deviation in mm we have when we close the box. The closer to 0, the more accurate we will be in our measurements. Depending on the result of the box we will get 0, 1, 2 or 3 stars score from the meter. To exit training mode and return to the original home screen(**fig.8**) we must deactivate training mode again in settings.
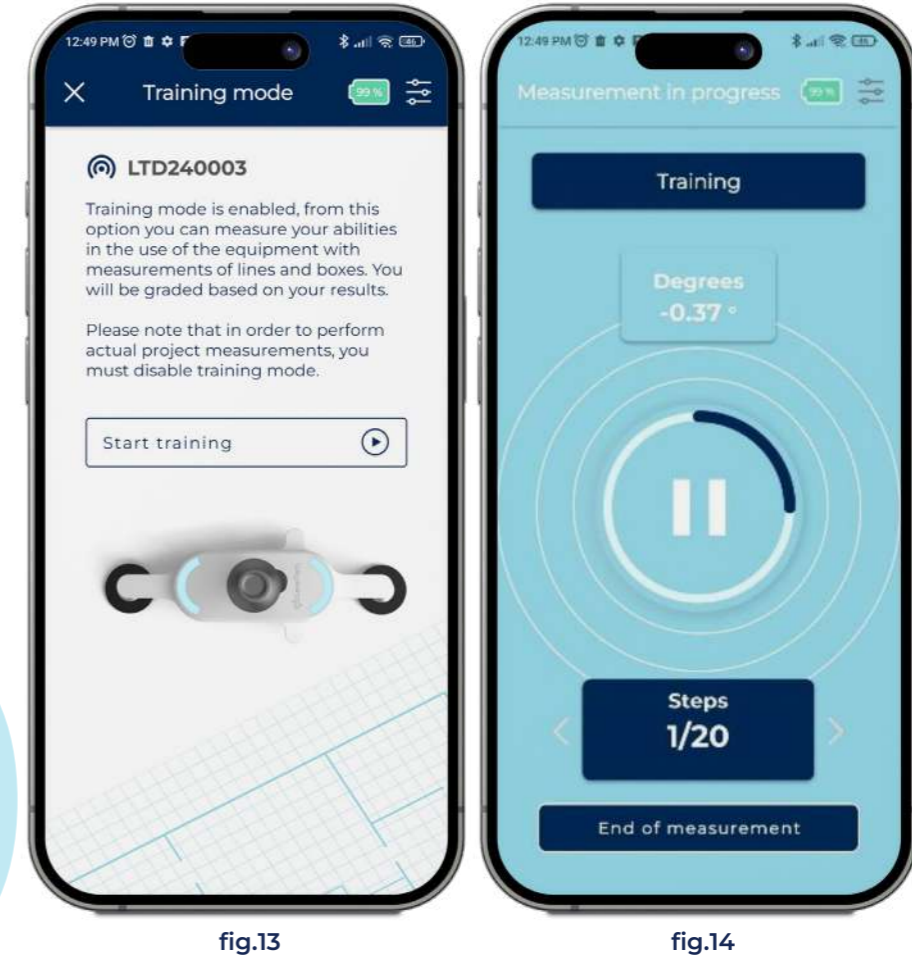

fig.9   fig.10   fig.11   fig.12

fig.13   fig.14

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PROYECT CREATION AND MODIFICATION

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Now with the device configured to our preference we will proceed to create a new project:

We must choose the client for whom the project is going to be carried out, the name of the project, the number of modules that our project will have, the type of device with which we are going to measure the project, the measurement method and the total surface of the project (optional)(**fig.15**). Once the project has been created we must create a module (or several) (**fig.16**) where we will indicate the number of slabs that the module consists of (**fig.17**)
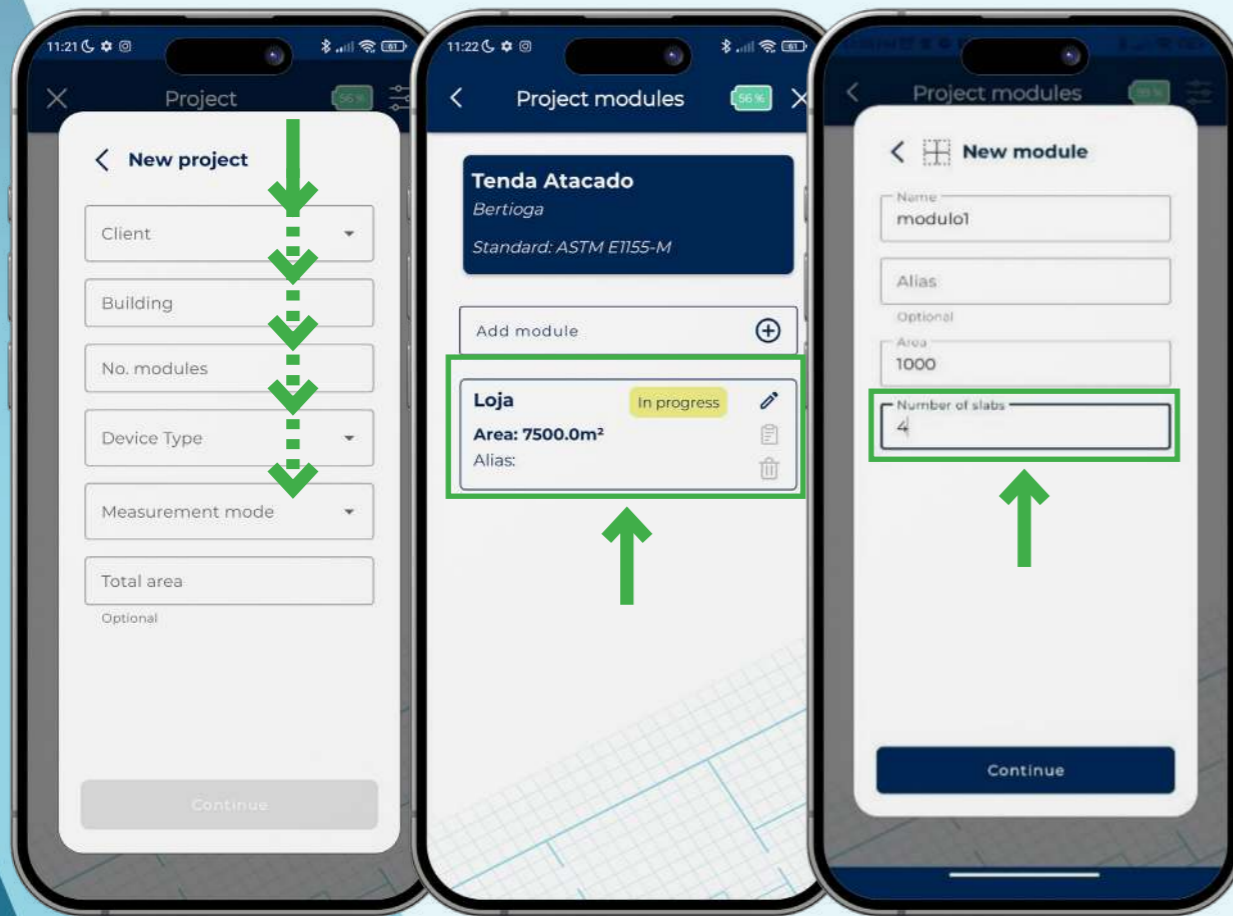
Once the project and the module are configured, 4 lines will be automatically generated for each slab created. We can add more slabs (**fig.18**) and within each slab more lines (**fig.19**) or delete some if we do not need them. Once everything is created we are going to proceed with the measurement of line 1.Choose line 1 and click on start measurement (**fig.20**)
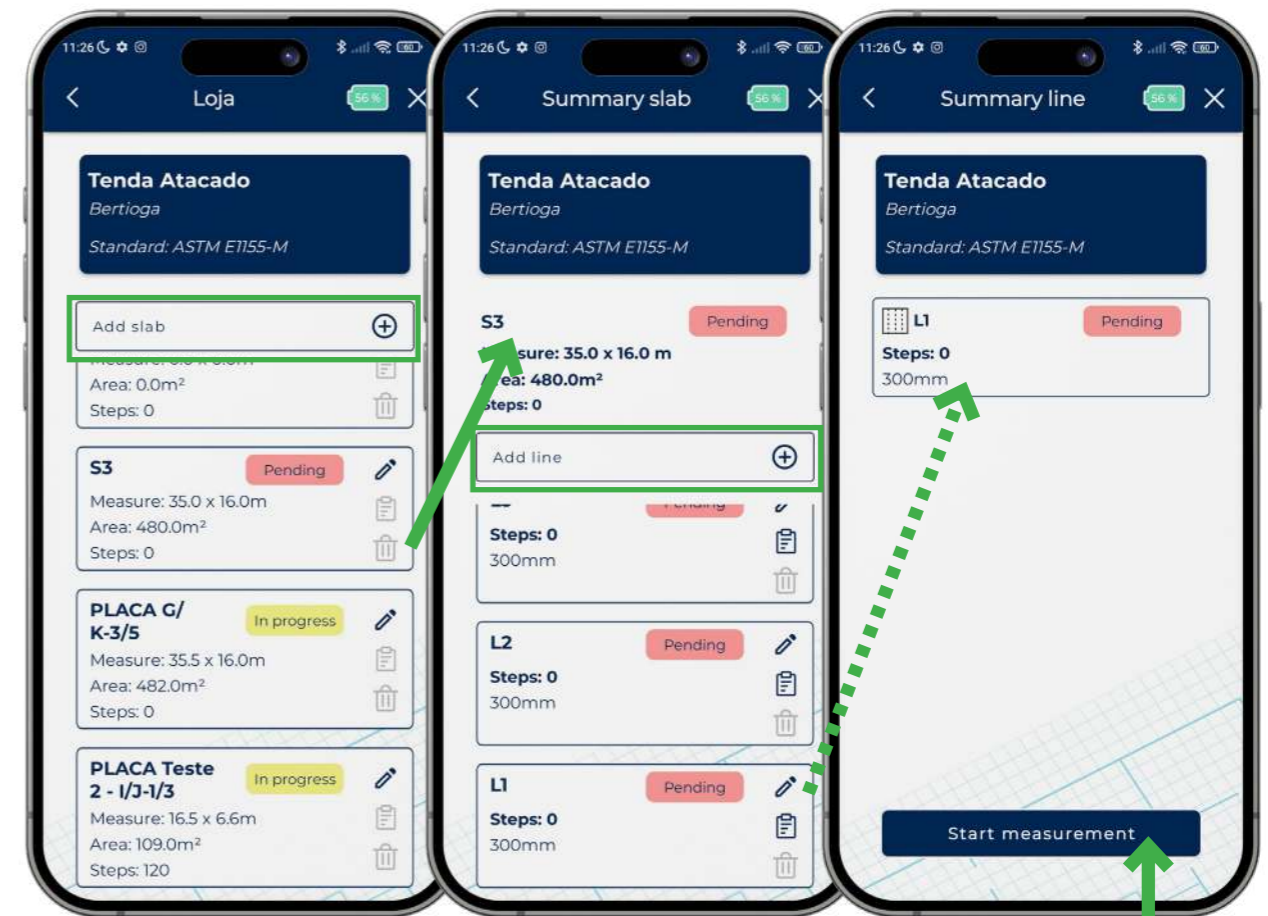

fig.15

fig.16

fig.17

fig.18

fig.19

fig.20

MEASUREMENT IN PROGRESS

When we are ready to take the first step we click on play (**fig.21**) and measure normally until we reach the end of the line where we press the end measurement button. In case of an erroneous step or a strange value in the measurement, we can repeat that step. If we press the button where the number of steps is displayed we will get an option to repeat that step (**fig.23**)
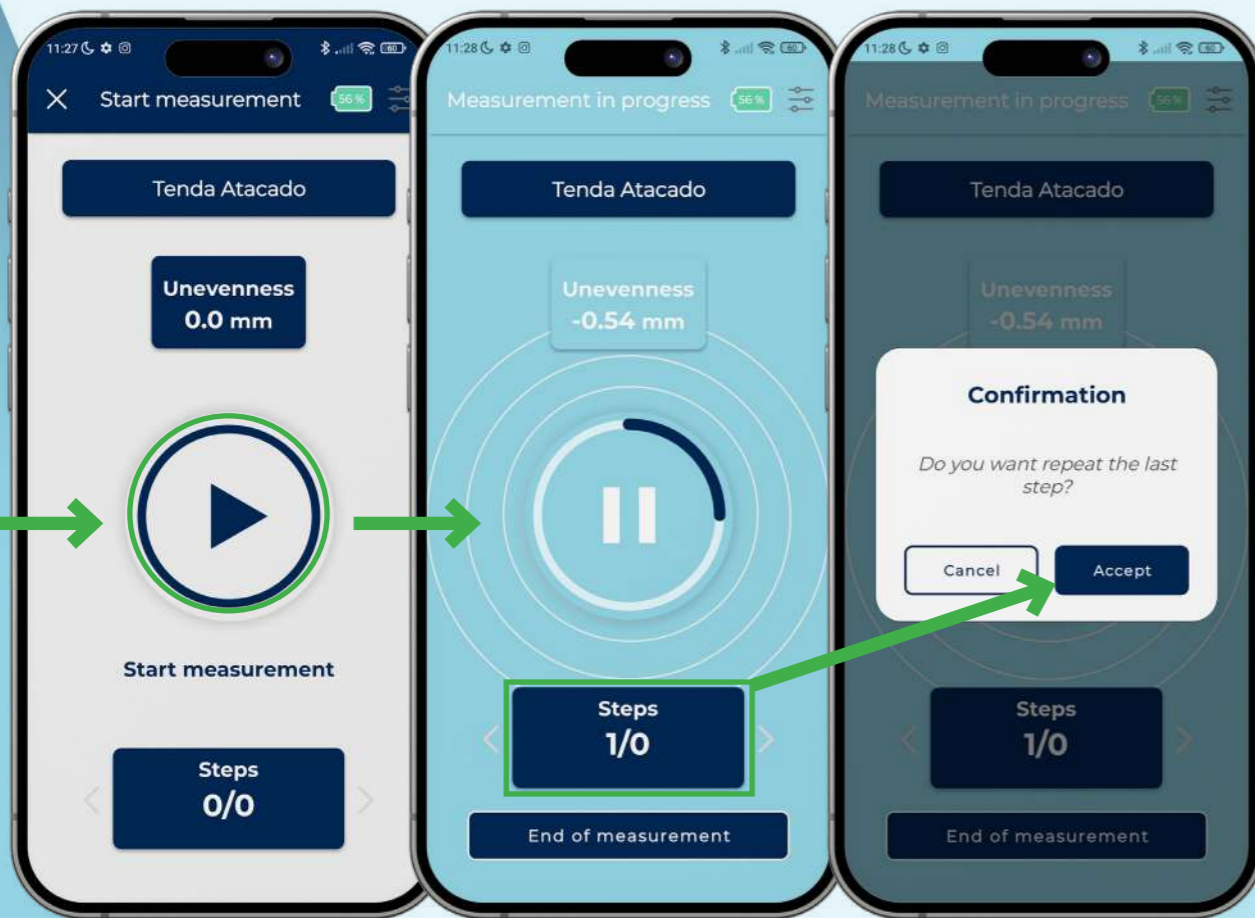
Once the line is finished we can see the Ff and Fl values (**fig.24**) of the measured line and its status will change from slope to done (**fig.25**). We can also see the line report by clicking on the report icon next to the line surrounded in green (**fig.25**)
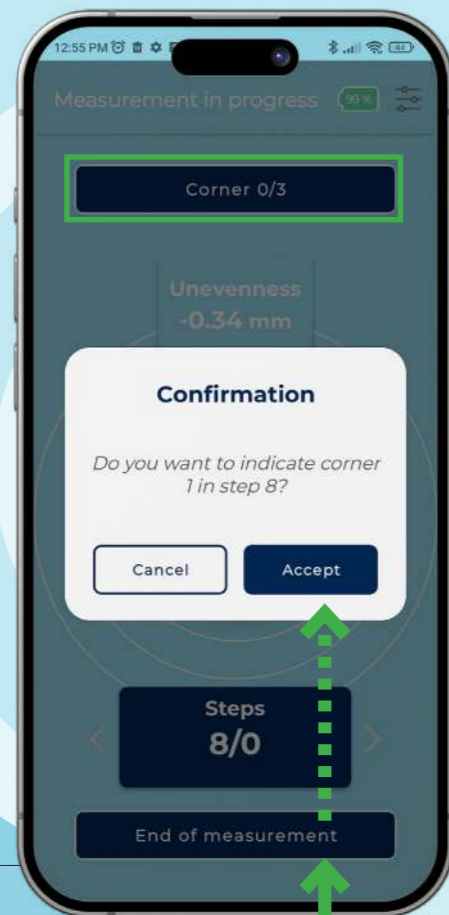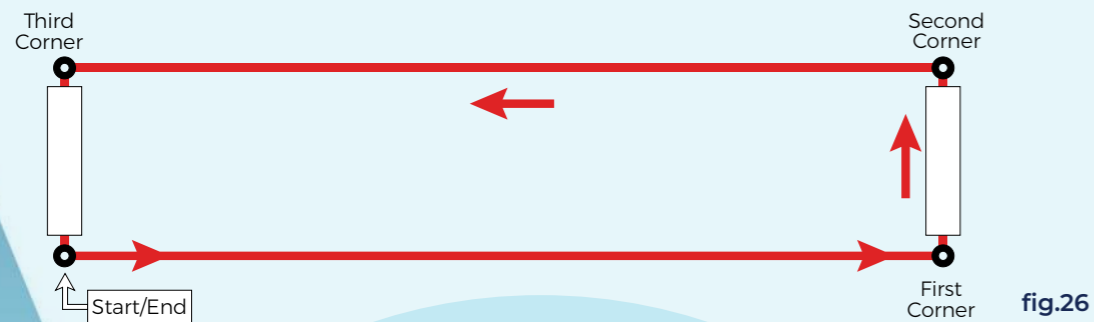

fig.21

fig.22

fig.23
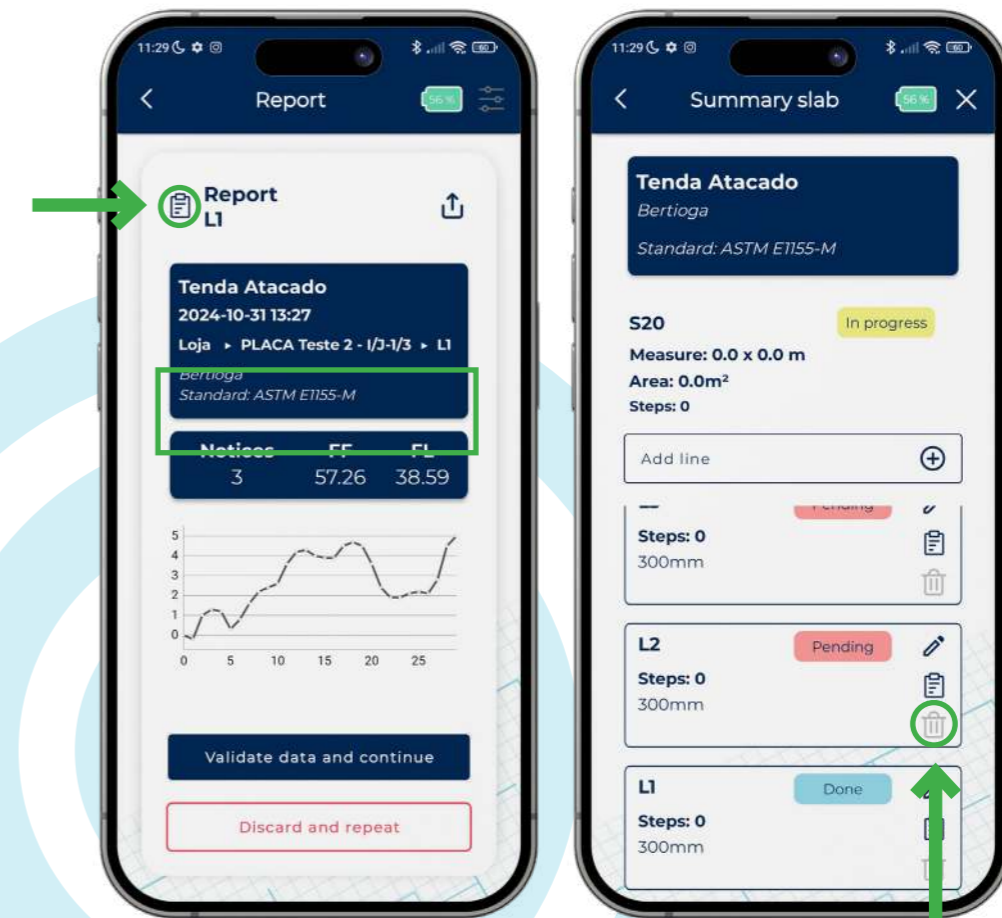
fig.24

fig.25

STANDARD EN15620

In order to measure the En15620 standard we will follow a scheme like the one in **fig.26**. We will have to specify to the device where the corners of the box are, for this we have a "corner" button (**fig.27**) to indicate each time we have reached a corner of the box. Once we have marked 3 corners, the last corner does not need to be marked, just press the finish button. If the corners of the box are not correctly indicated, the measurements of the standard will not be correct. Once finished we will see in the app the graph of the cross-sectional measurements. To see the complete report, we will have to enter the website.

Third Corner   Second Corner

First Corner   **fig.26**

Start/End

STANDARD FMIN

In order to measure Fmin standard we will follow a scheme like the one in **fig.26**. When creating the project we will have to specify the length of the forklift and the desired fmin We will have to specify to the device where the corners of the box are, for this we have a "corner" button (**fig.27**) to indicate each time we have reached a corner of the box. Once we have marked 3 corners, the last corner does not need to be marked, just press the finish button. If the corners of the box are not correctly indicated, the measurements of the standard will not be correct. Once finished we will see in the app the graph of the cross-sectional measurements. To see the complete report, we will have to enter the website.

NEXT STANDARDS

Standars din18202 under development. As soon they are published, we Will update there.

14+

Measurement in progress

Corner 0/3

Unevenness
-0.34 mm

Confirmation

Do you want to indicate corner 1 in step 8?

Cancel   Accept

Steps
8/0

End of measurement

fig.27

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BACKEND MEASURMENTS CONSULTATION

To enter the backoffice go to http://leveltech.motitworld.com/. Here you have to log in with your username and password.
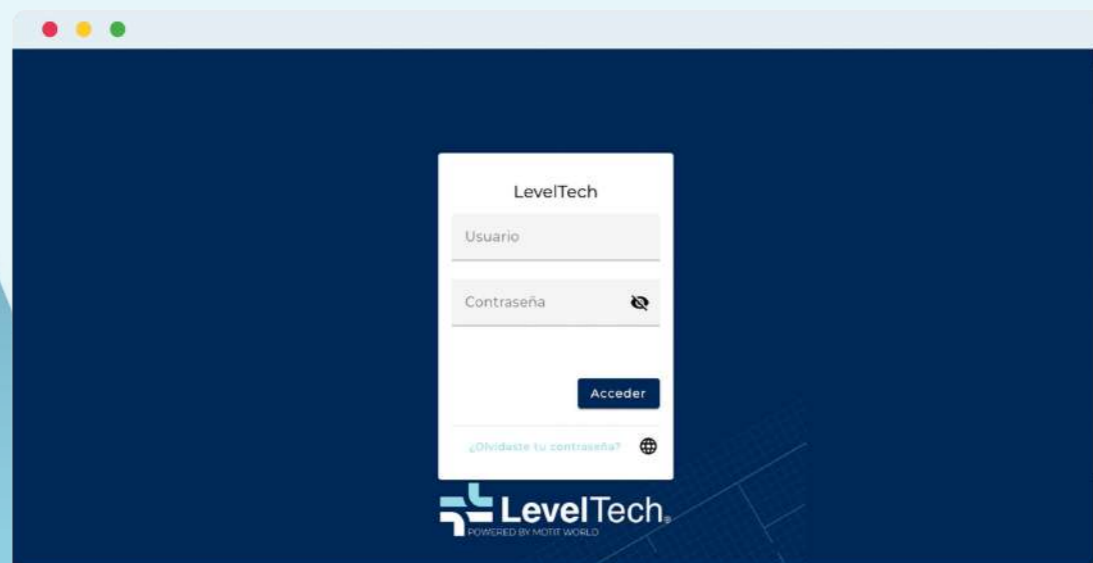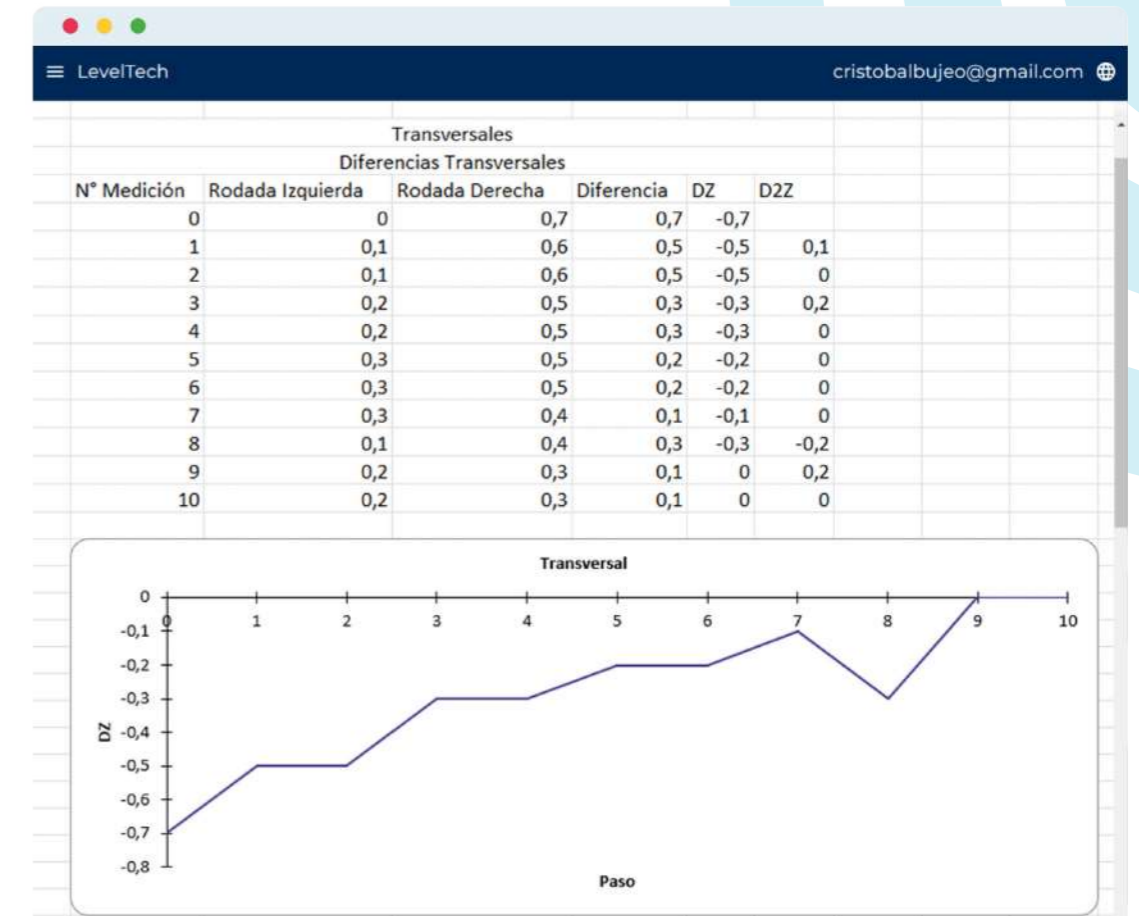

Once inside the page will look like this with all the projects created:
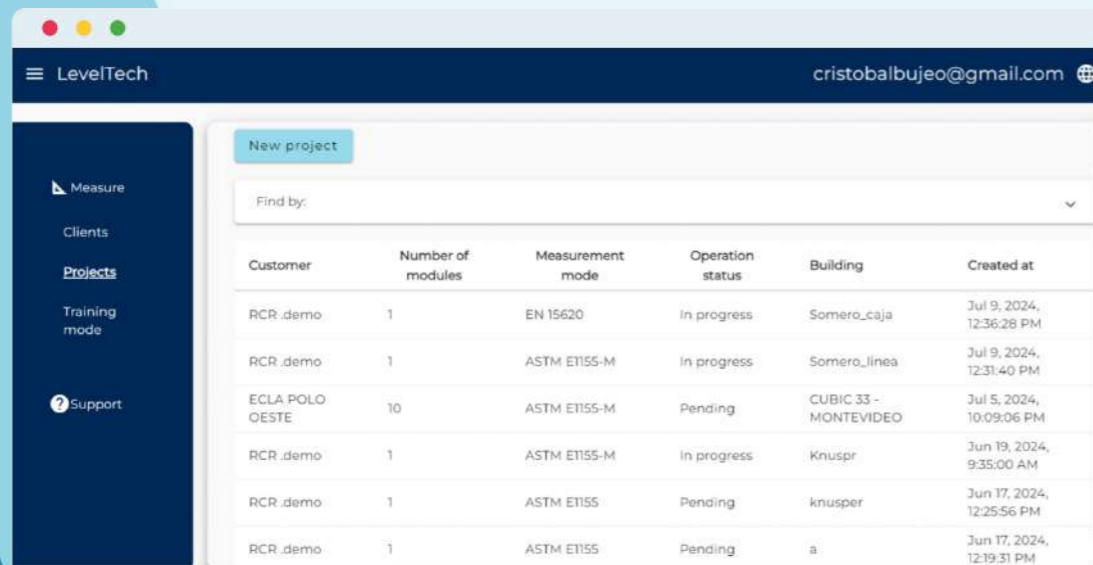
To consult our measurements we choose the project we have done and within the project we have chosen we can download the data of any module by clicking on the download icon that appears next to each module.
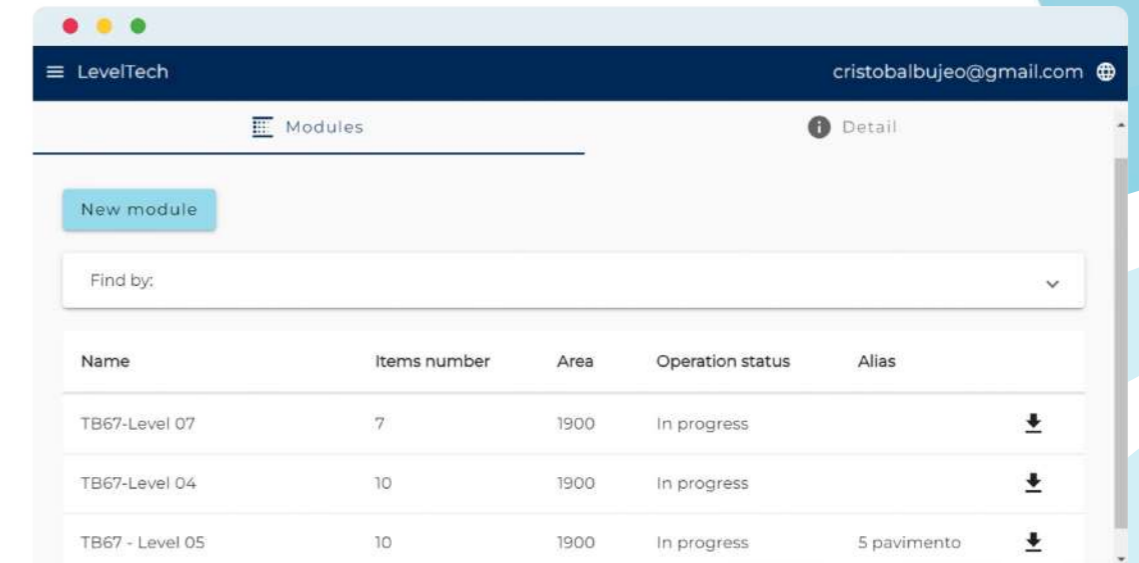
This will take us to an Excel file where we will have all the data of the module in question.

If we want to see the floor profile of a line or the measurements of the FL & FF numbers of a slab we only have to choose the project, then the module, the slab we want to look at and then the line. On the screen we can see the floor profile in the spreadsheet tab, the individual measurements in the measurements section and in the details section we can modify the name of the line, change its status or delete the line.
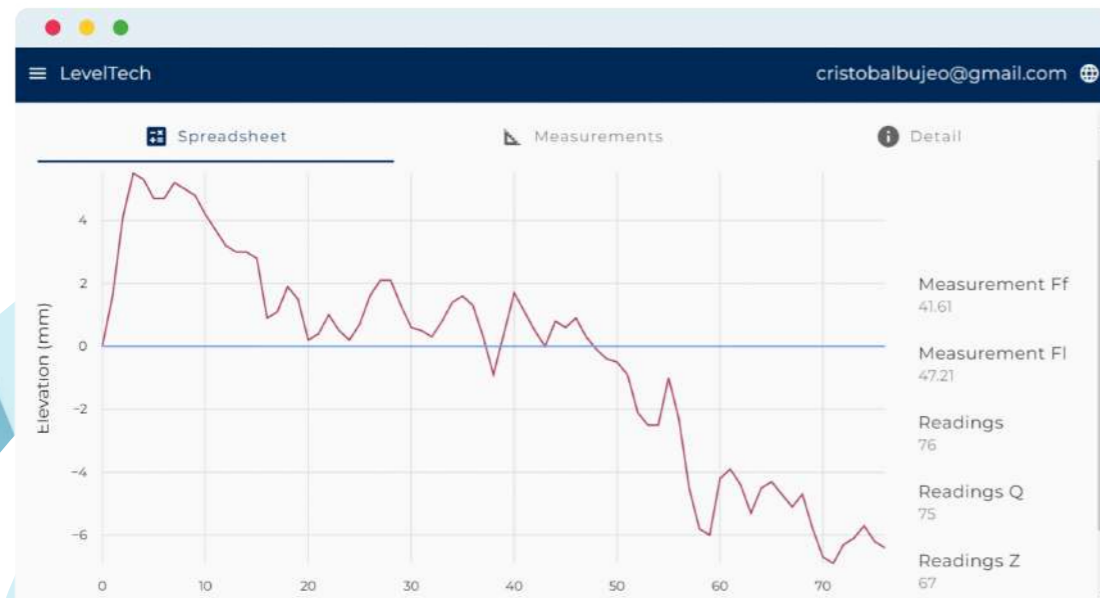
BACKEND DISTRIBUITOR

As a distributor we have 3 options on the menu. Assign devices, create or modify companies and create/modify users. First the company is created, which can be an owner or distributor. Afterwards a user is created, where you must indicate which company it belongs to and what type of user it will be. To create a new distributor or owner, we must first create the company, specifying whether it is an owner company or a distribution company.
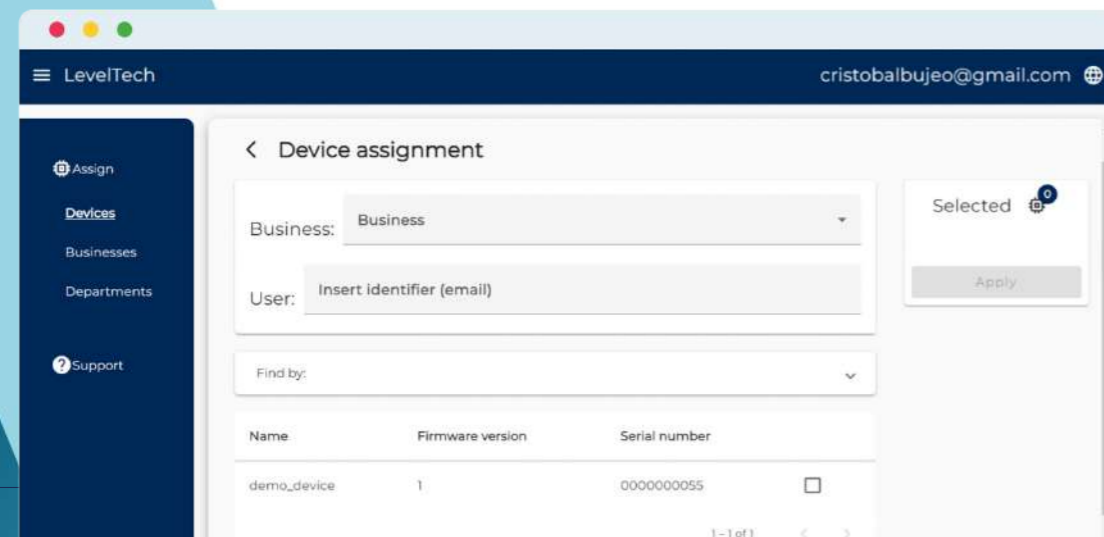
Once our companies are created, we can create users. We will have to go to the Departments->new user section.
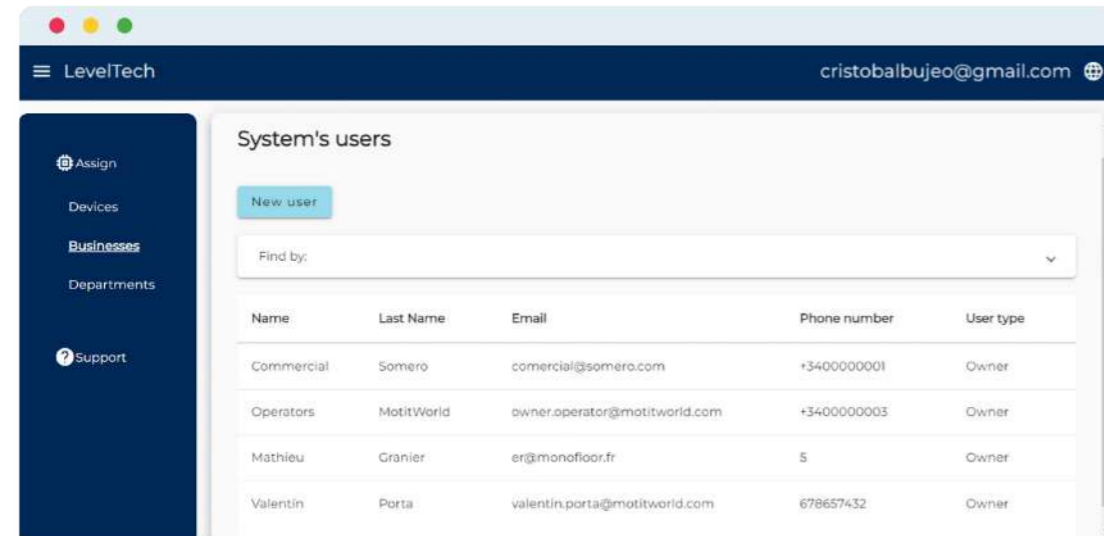
We will have to specify the email, phone, password, company and what privileges this user will have (owner or distributor)
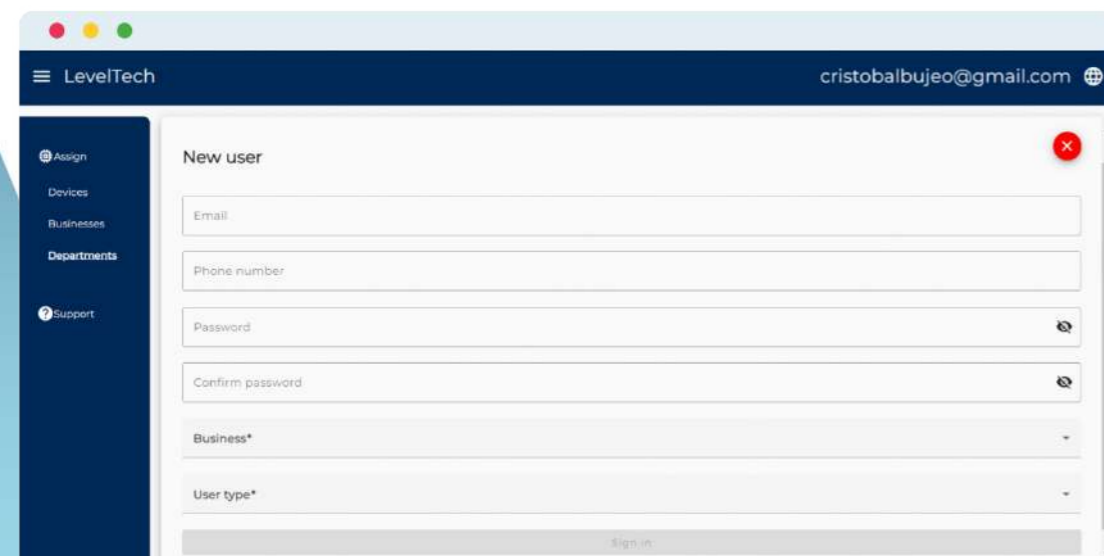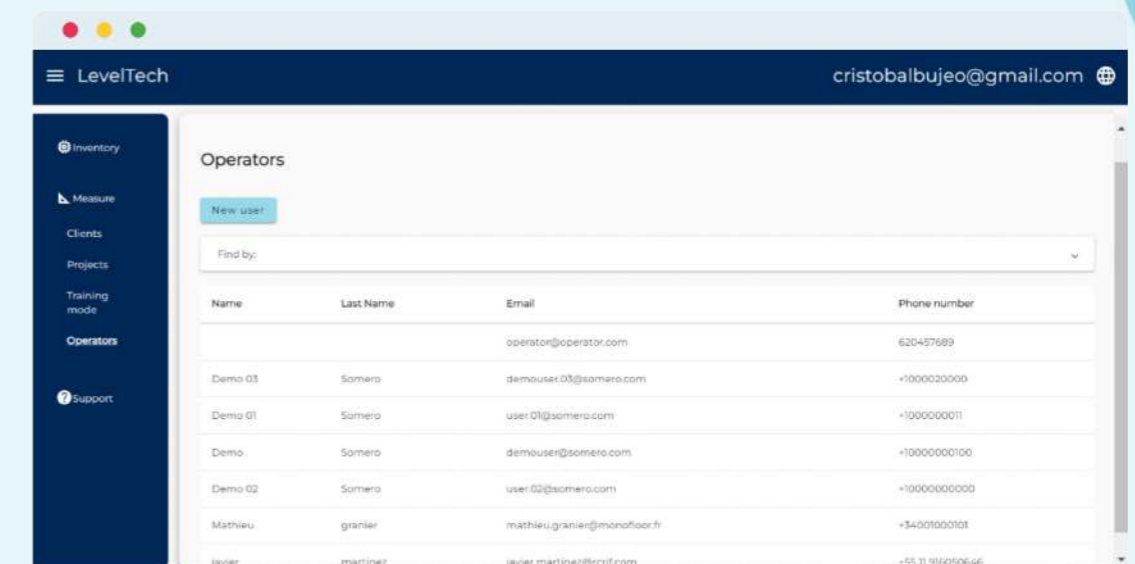

Once a user has been created, we can assign devices to them, indicating the company, the user's email address and the device(s) to assign.
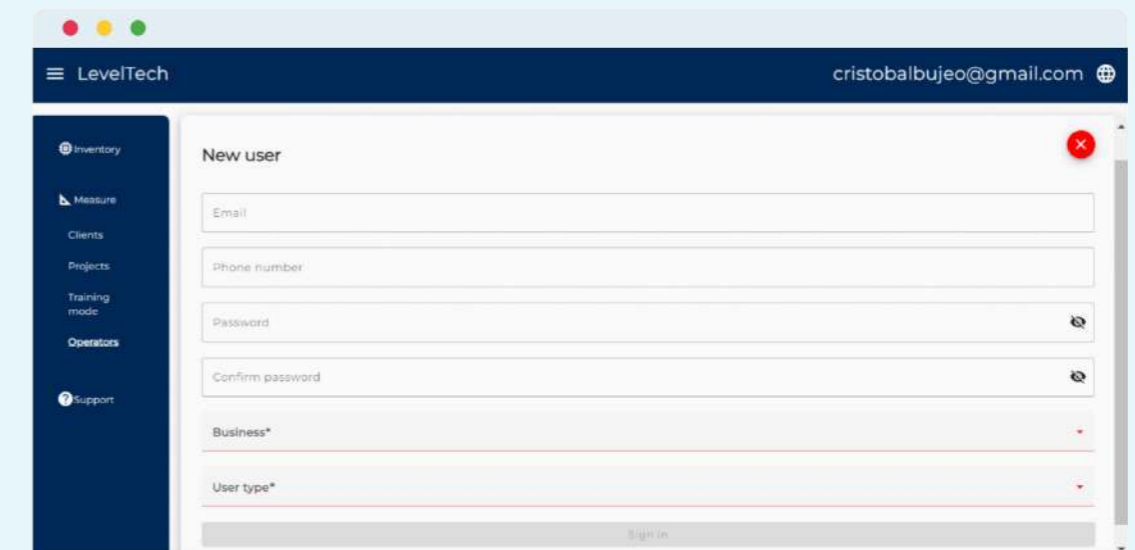
BACKEND OWNER

If we are owners we can create/modify our own operators to use the device. As an owner I can make measurements and consult projects too.

We specify the email, name and password and that user will now be able to use the equipment to create/modify projects, make measurements and the backend to consult measurements.

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