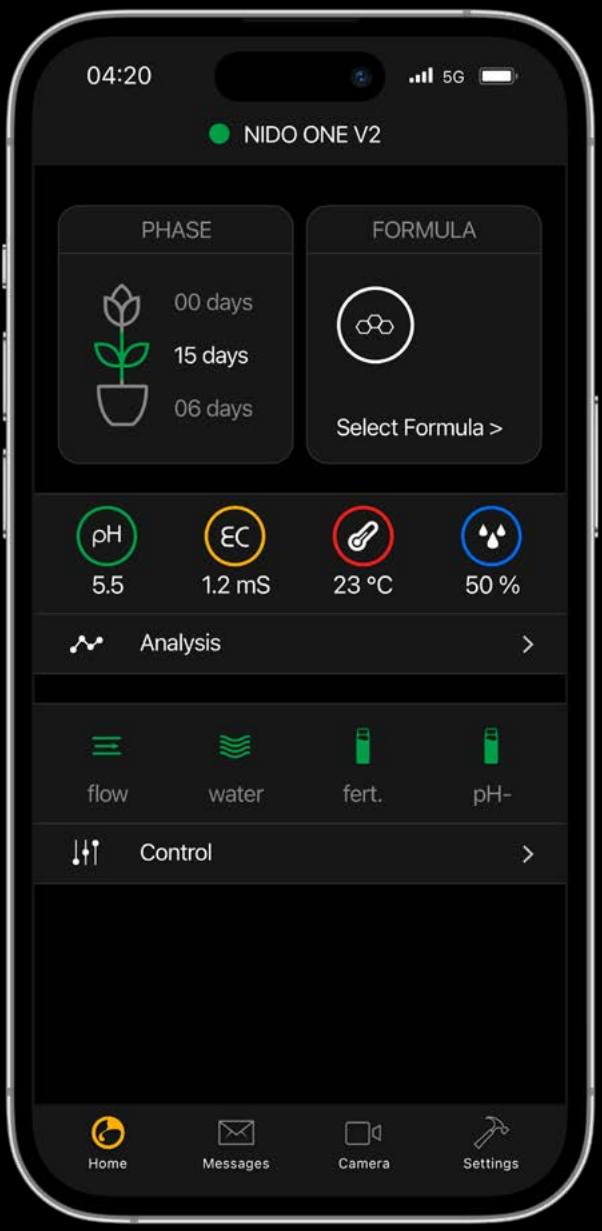
APP MANUAL

NIDOPRO



nidopro.com

SUMMARY

APP INSTALLATION AND USER REGISTRATION 3
FIRST ACCESS TO THE APP. 4
THE USER INTERFACE 5
PHASE OF THE PLANT 7
GROWTH FORMULA 8
VALUES AND GRAPHICS 12
ANALYSIS 12
STATUS OF ALARMS 13
CONTROL 13
MESSAGES 14
SETTINGS. 16
LIMITED WARRANTY NIDO S.R.L. 20

APP INSTALLATION AND USER REGISTRATION

Download on the App Store

GET IT ON Google Play

The app is available for iOS and Android devices. After downloading and installing it, open the NidoPro app.

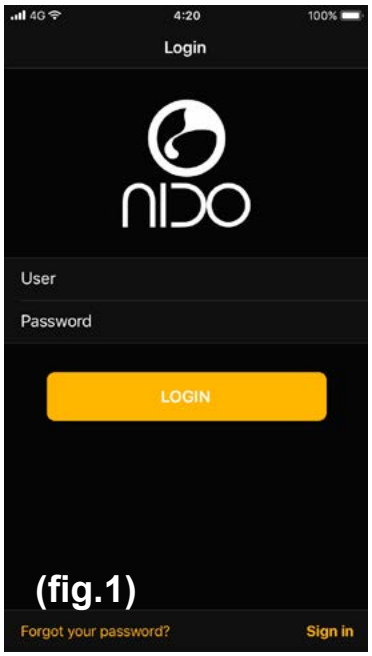
(fig.1) At the first launch, registration is required: select “Register” to create the credentials you will use for future access. If you already have credentials, log in by entering your “User” and “Password” and pressing “LOGIN”.

(fig.2) Create the user profile by entering a “Username,” a “Password,” and a valid email address.

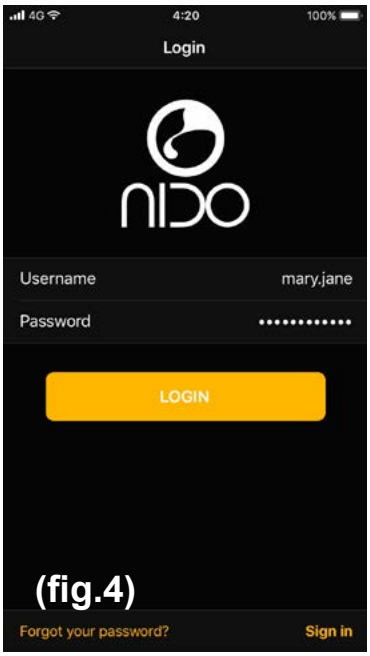
(fig.3) Complete the registration by confirming your email address through the link received in your inbox.

(fig.4) Once registration is complete, log in to the app using the credentials you just created.

If you have forgotten your password, you can easily recover it by selecting the “Forgot your password?” link



(fig.1)



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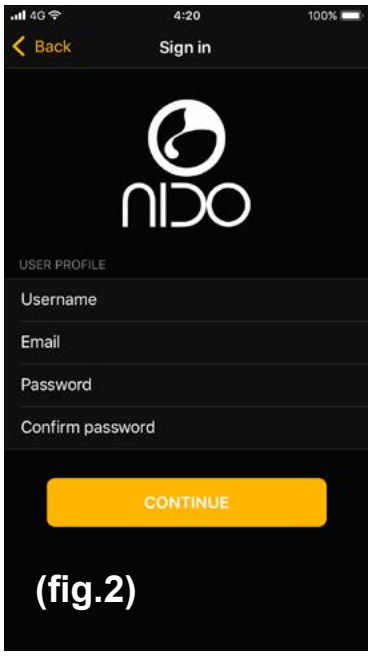
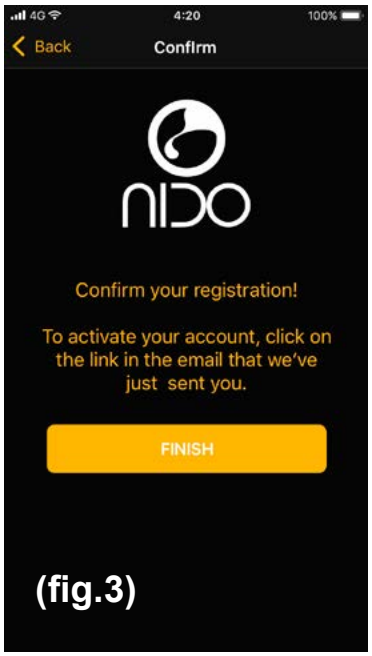


(fig.2)



(fig.3)

FIRST ACCESS TO THE APP

Check that NIDO ONE V2 is connected to the Internet: the left LED should be green and the right LED should be steady blue.

On the first login, it is necessary to pair and configure the NIDO ONE V2 device.

(fig.1) Accept the terms and conditions of device use.

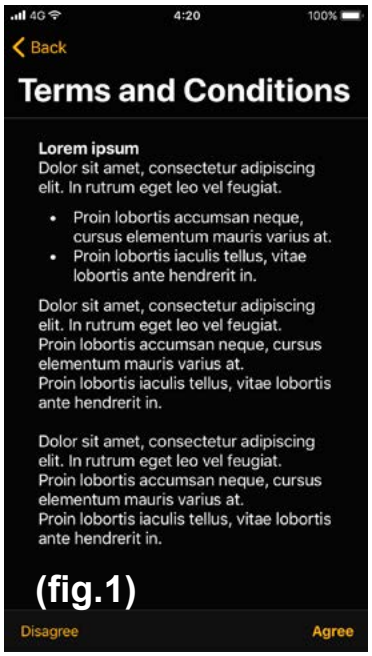
(fig.2) Pair NIDO ONE V2 by scanning the QR code on the label. The camera remains active for 10 seconds; to reactivate it, tap the camera icon. If pairing has issues, manually enter the serial code of NIDO ONE V2 in the “Serial Code” field.

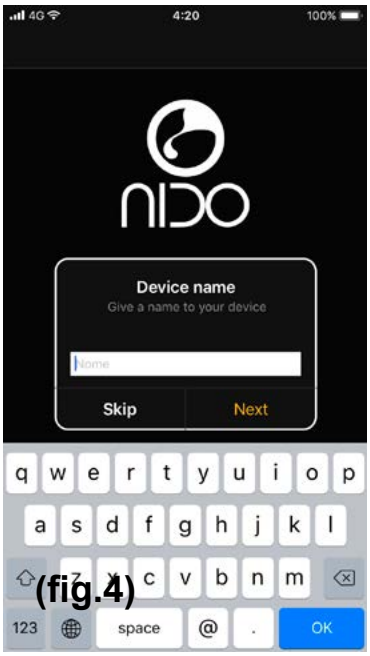
(fig.3) After scanning, press the “WPS” button on NIDO ONE V2 until the purple light flashes (about 5 seconds).

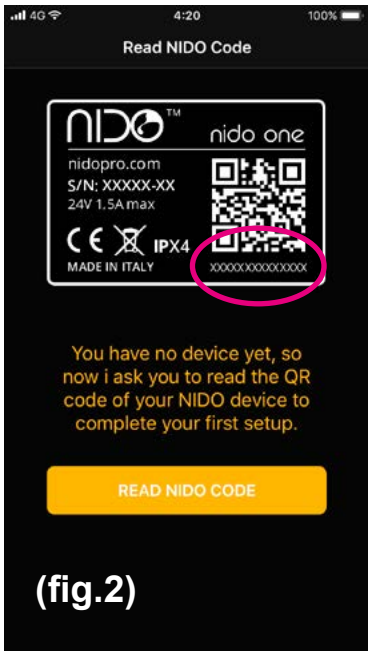
(fig.4) Assign a name to NIDO ONE V2.

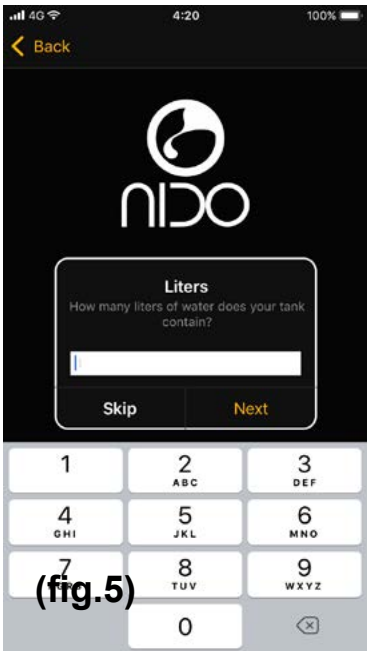
(fig.5) Select the tank capacity in liters when fully loaded.

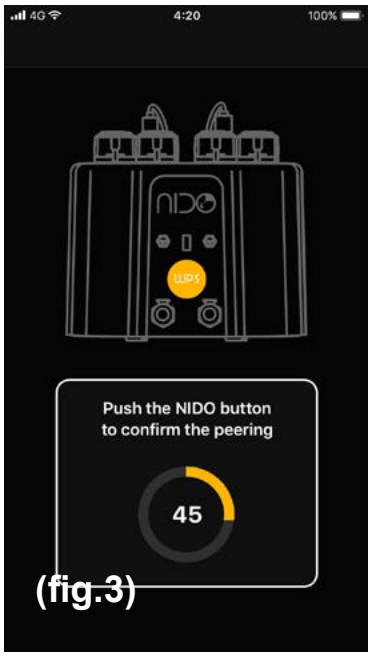
(fig.6) When the setup is complete, press “Start” to begin using the device.

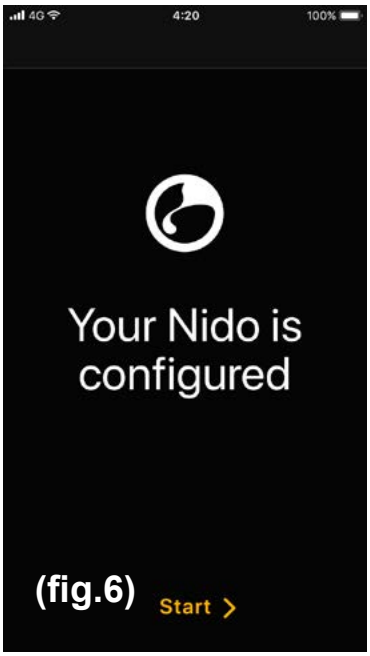






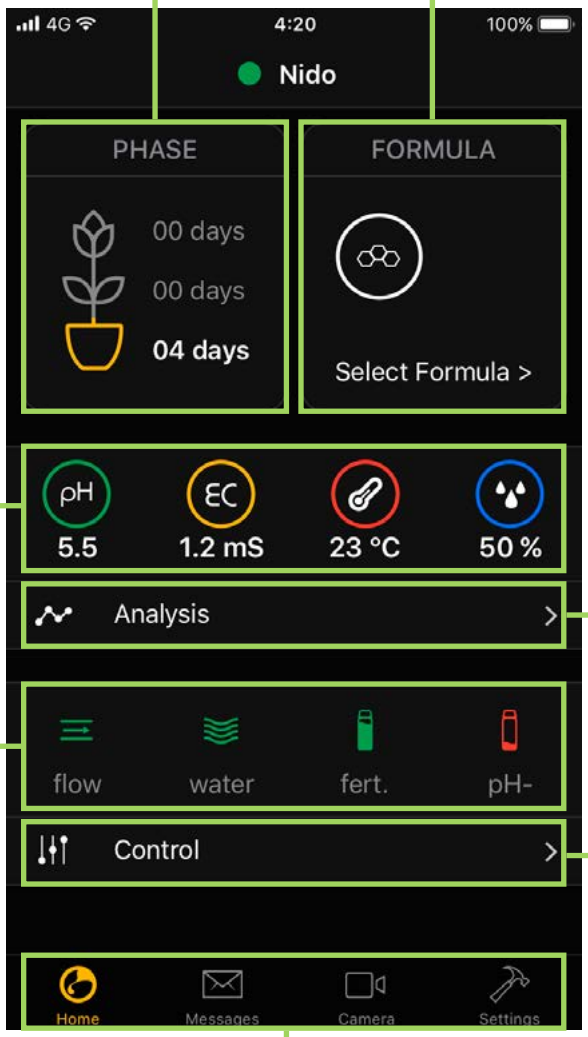






PHASE OF THE PLANT

CULTIVATION FORMULA



VALUES AND GRAPHICS

ANALYSIS

STATE OF THE ALARMS

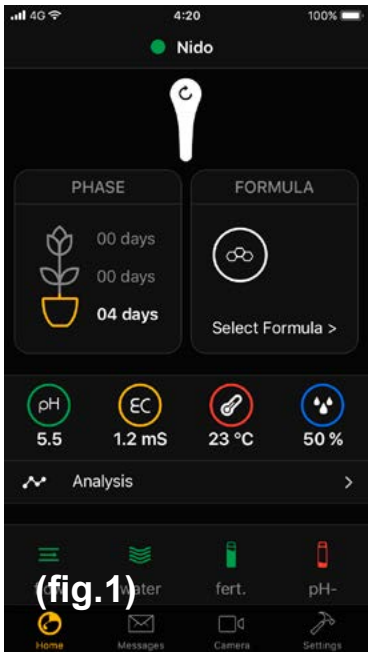
CONTROL

TAB BAR

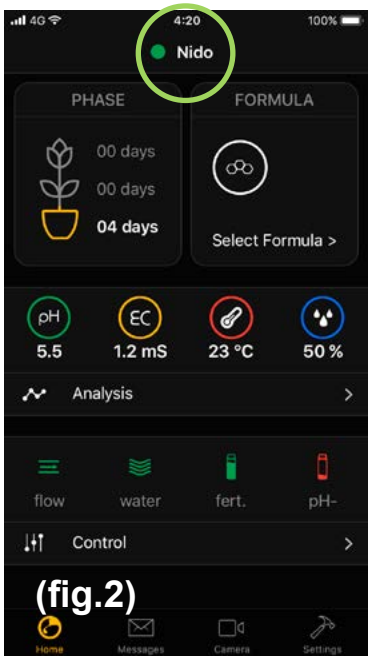
(fig.1) In the HOME of NidoPro, you will find the main values and the general status of the cultivation. To update the values instantly, pull down on the screen and wait 10 seconds.

(fig.2) To manage multiple NIDO ONE V2 devices, click on the device name at the top.

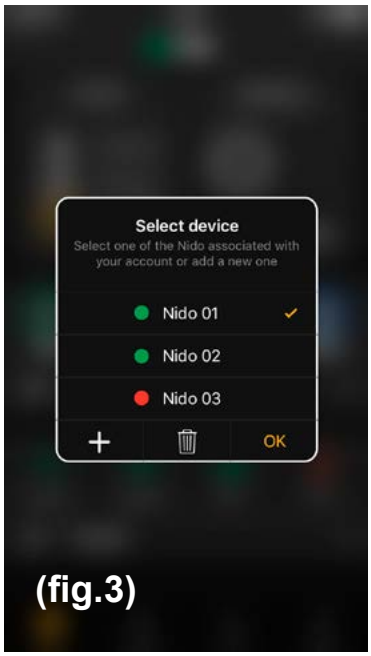
(fig.3) Press the “+” button to add a new NIDO ONE V2. Switch between devices by selecting one and clicking “OK.” To remove a device from the list, select it and click on the trash icon.



(fig.1)



(fig.2)



(fig.3)

PHASE OF THE PLANT

The “plant phase” represents the different growth stages, each with specific needs to support optimal development:

GERMINATION
This is the initial phase, where seeds begin to sprout and develop the first roots and leaves. In this phase, it is important to maintain optimal humidity levels and a constant temperature to encourage healthy, vigorous growth of the seedlings.

VEGETATIVE
In this second phase, the plant develops its structure, producing leaves and strengthening the stem. During the vegetative phase, the plant needs more light exposure and balanced nutrients to support photosynthesis and overall growth.

FLOWERING
This is the final phase in which the plant starts producing flowers or fruits. During flowering, the plant’s needs change, requiring adjustments in nutrients and lighting to stimulate flower production and support maturation.

NIDO ONE V2 closely monitors the days of each phase using data from the configuration calendar, adjusting settings to promote the plant’s ideal growth.

GROWTH FORMULA

The “Growth Formula” allows you to configure or load the ideal settings and parameters for the cultivation based on the type of plants.

(fig.1) By selecting the “Formula” box at the top right, you can access the growth formula page. Here, you will find preset formulas, previously saved formulas, or you can create a new custom formula.

(fig.2) The “Herbs” and “Vegetables” categories contain automatic recipes, periodically updated with new cultivation options. By creating a “New Formula,” you can set all the main parameters of the growing.
In the “Saved Formulas” section, previously created formulas are stored.

STARTING AUTOMATIC GROWTH

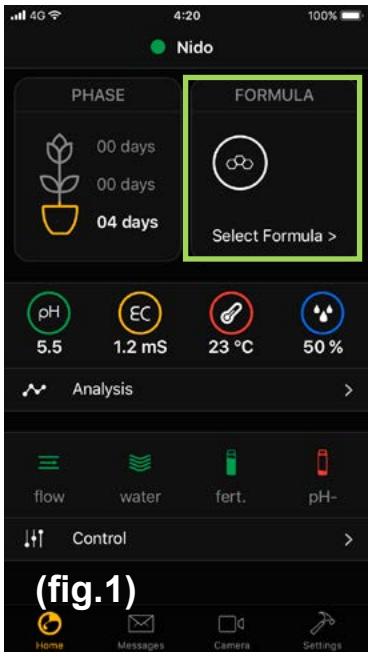
(fig.3) Select a category (e.g., vegetables).

Choose the type of plant you want to grow (e.g., tomatoes).

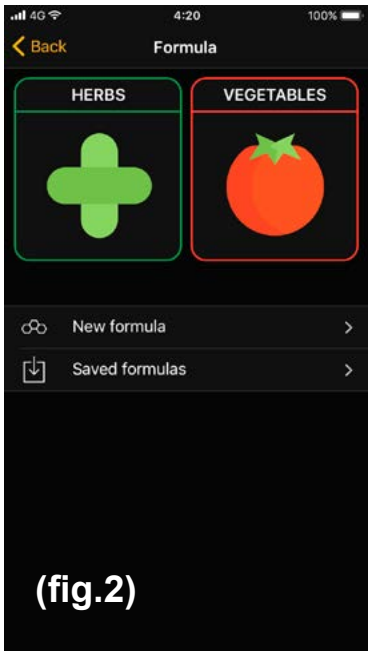
(fig.4) Select the type of fertilizer and press “START” to begin cultivation.

Irrigation cycles are automatic and the same for all formulas: 10 cycles of 10 minutes during the day and 3 cycles of 10 minutes at night, defined based on the set lighting.

(fig.5) To stop cultivation, select the “Formula” box and press “STOP.” Note that once stopped, cultivation cannot resume from the exact point it was halted.



(fig.1)



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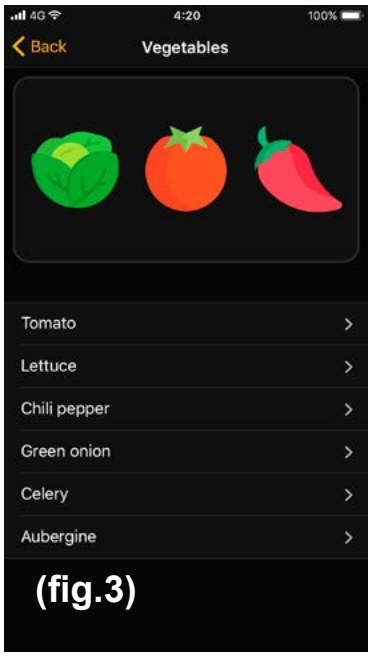

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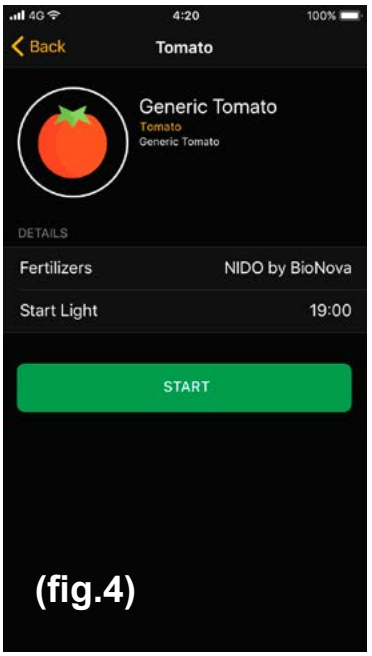

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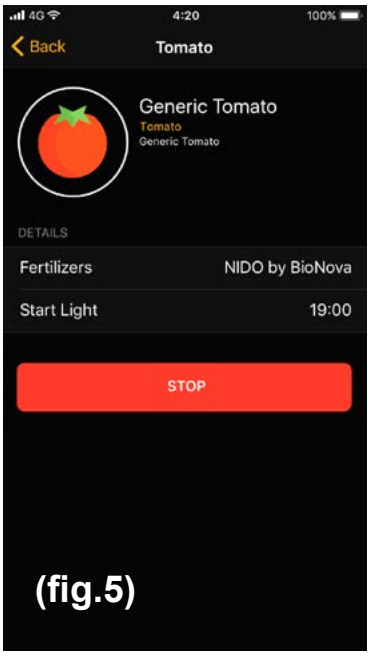


(fig.5)

CREATE A CUSTOM FORMULA

(fig.1) Select “New Formula” to get started.

(fig.2) Name the new formula.

(fig.3) Click the “+” button at the top right to add configurations to the formula.

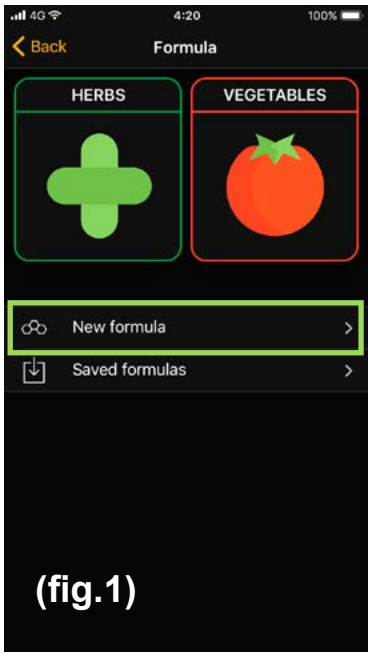
(fig.4) Set the period by selecting the start and end dates. Choose the plant phase (Germination, Vegetative, or Flowering) and specify the parameters you want to monitor: pH/EC, light cycles, temperature/humidity, and irrigation cycles. Each parameter can be adjusted by clicking on the desired value.

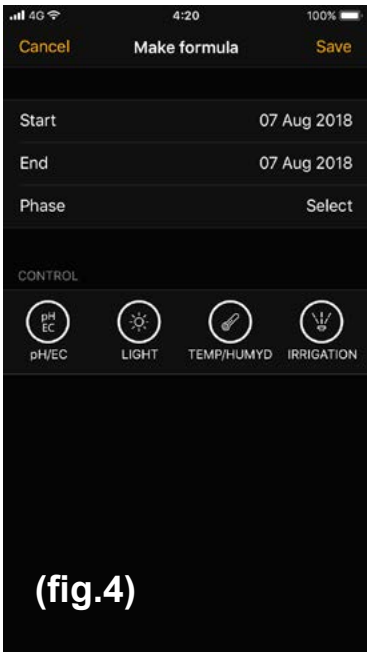
PH CONTROL

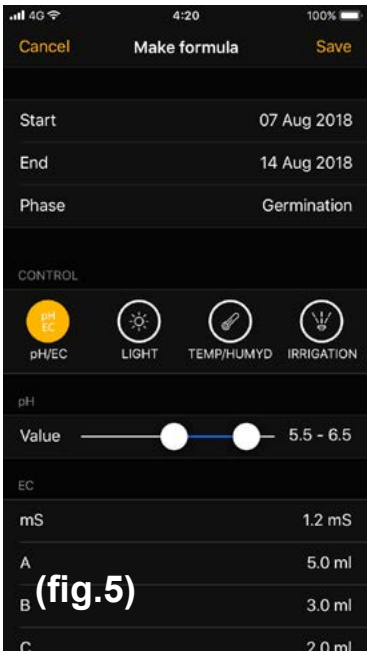
You can set a fixed pH value or a range.

Example of a fixed value:
Set both sliders to the same value (e.g., pH 5.8). The system will maintain the nutrient solution at 5.8 (± 0.1).

(fig.5) Example of a dynamic value:
Set the pH sliders to a range, for instance, between 5.5 and 6.5. The system will automatically adjust the pH within this range, only intervening when the upper limit is reached.







EC CONTROL

(fig.1) Set the EC (mS or TDS) value and the ratio of fertilizers A, B, and C, then press “Save” to confirm the configuration.
Enter the ml values for A, B, and C based on the fertilizer instructions you will use, representing the proportion between the various fertilizers.

The EC/TDS value will be maintained by respecting the proportions between fertilizers A, B, and C, according to the specific instructions from the manufacturer. For example, if the recommended proportions for a fertilizer tripack in the first two weeks are:

Fertilizer A: 5 ml
Fertilizer B: 3 ml
Fertilizer C: 2 ml

You will need to enter these values as a reference, adjusting them to the indicated amount of water (e.g., per liter, 10 liters, or 100 liters). These values represent the dosing ratio between fertilizers, without directly affecting the total amount of water used.

LIGHT CONTROL

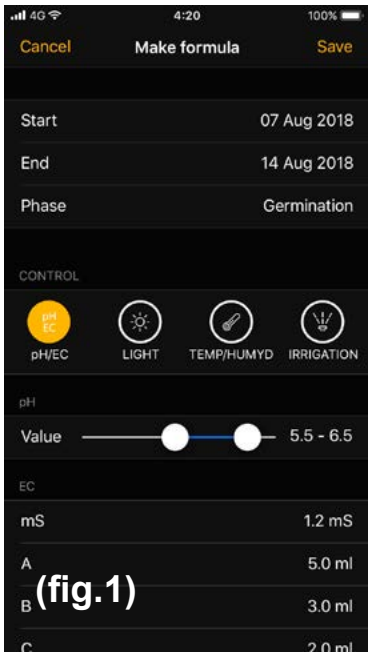
(fig.2) Click on the “Light” icon.
In the “Start” field, choose the lighting start time, for example, 7:00 PM.
In the “Hours” field, specify the duration of the light cycle, such as 18 hours.

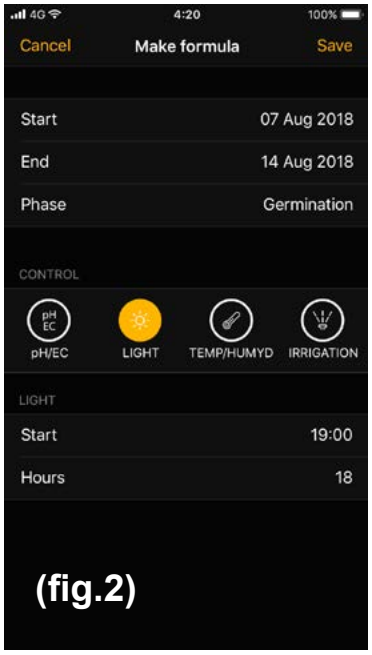
This way, the lighting will turn on at 7:00 PM and turn off at 1:00 PM the next day.

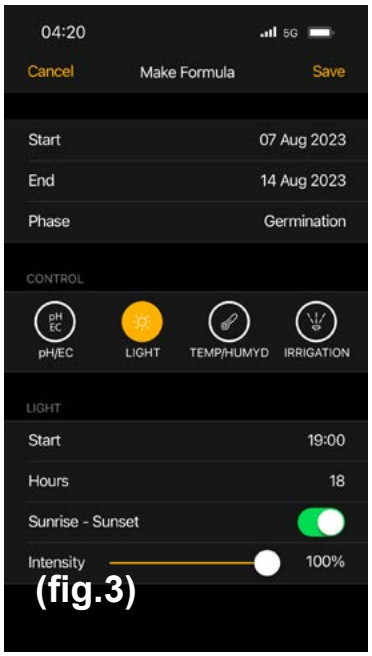
(fig.3) The Sunrise/Sunset Function (available with the Felix lamp in combination with NIDO ONE V2 Gate) allows for a gradual and natural transition between day and night, avoiding abrupt light changes that could negatively affect growth and crop quality. This system promotes optimal plant metabolism, supporting Auxin production, the hormone responsible for growth and development.
The Sunrise/Sunset Function is only available with NIDO Gate, the intelligent control system for the Felix lamp.

TEMPERATURE AND HUMIDITY CONTROL

(fig.4) Click on the “Temp/Humidity” icon.
Set the desired values in the “Temperature” and “Humidity” fields to maintain optimal conditions for cultivation.







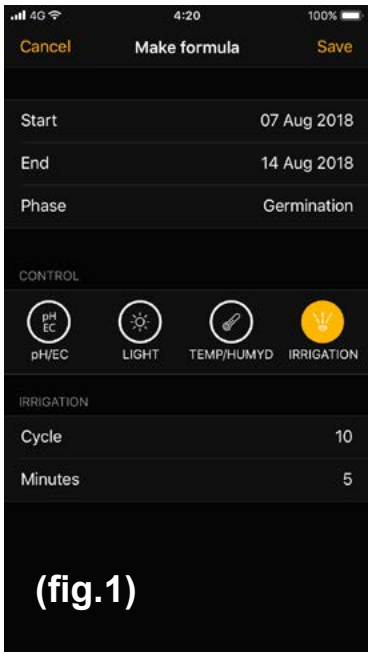
IRRIGATION CONTROL

(fig.1) Click on the “Irrigation” icon.
In the “Cycles” field, enter the number of irrigations to be performed within 24 hours (e.g., 10). In the “Duration” field, specify the duration of each irrigation cycle (e.g., 5 minutes).
With this configuration, the system will execute 10 irrigation cycles distributed over 24 hours, each lasting 5 minutes.

(fig.2) If the NIDO light plug is connected, you can set separate irrigation cycles for day and night.

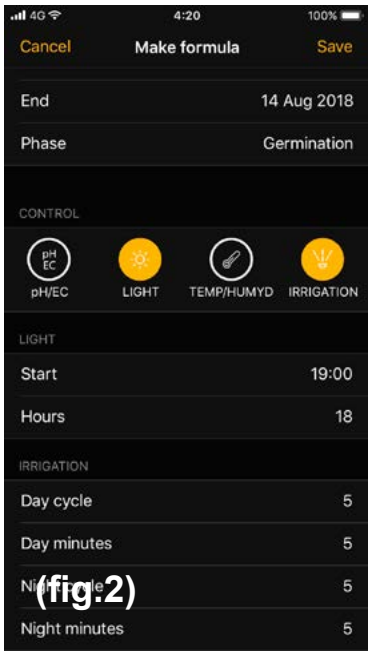
(fig.3) To add a period to the formula, press the “+” button at the top right to access the period editor page. For example, if you configure a period from day 7 to day 14, day 15 will require a calendar extension action if it is not already configured.

(fig.4) To modify the settings of an already configured period, click on the day number you wish to edit, then select the “Edit” button at the top right.



(fig.1)

(fig.4)



(fig.2)

(fig.3)

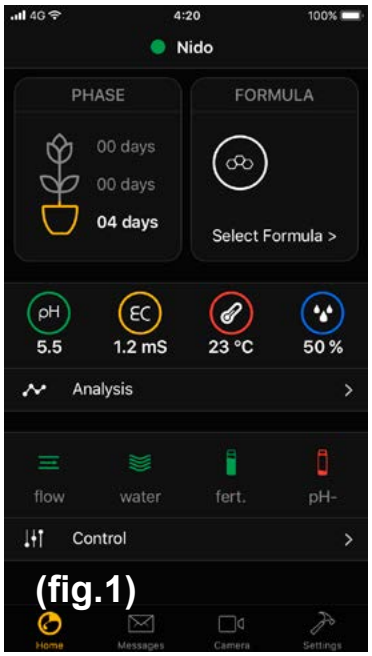
VALUES AND GRAPHICS

(fig.1) In the NidoPro HOME, you can view all updated values every 15 minutes and the general status of the greenhouse.

(fig.2) By clicking on the pH, EC, temperature, or humidity icons, you can access graphs to monitor value trends. You can select the data history period between 4 hours, 12 hours, 24 hours, 48 hours, and 1 week.

If NIDO ONE V2 goes offline due to Internet connection issues, it will continue to store data and maintain greenhouse settings. When the connection is restored, the data will automatically sync with the app.

The symbol “/” instead of a value indicates an out-of-range reading or a missing sensor. Check the sensor connection, and if the issue persists, contact support.



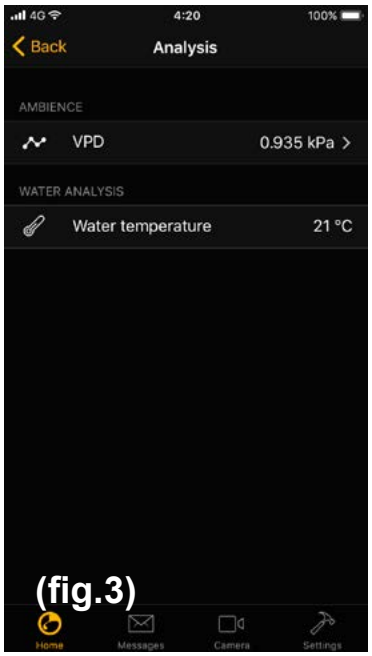
(fig.1)

(fig.2)

ANALYSIS

(fig.3) On the “Analysis” page, data related to water temperature and VPD (Vapor Pressure Deficit) values are available.

(fig.4) By clicking on the values, you can view historical data, up to a maximum of one week.



(fig.3)

(fig.4)

STATUS OF ALARMS

FLOW Indicates the water flow status between the nutrient solution tank and NIDO ONE V2	Regular flow	Below-average flow: check the filter or tube positioning	No flow: refer to the “Troubleshooting” section of the NIDO ONE V2 user manual
WATER LEVEL Indicates the water level in the nutrient solution tank	Regular water level		Below minimum threshold
FERTILIZER Indicates the level of fertilizer in the cartridge/ tank	Optimal fertilizer level		No fertilizer in the cartridge/ tank
pH Indicates the level of phosphoric acid in the cartridge/tank	Optimal acid level		No phosphoric acid in the cartridge/tank

*The fertilizer/pH-/pH+ level indicator is based on software algorithms. There are no sensors to detect the depletion of fertilizer/pH-/pH+, so the alerts may have tolerances in accuracy that vary depending on the type of fertilizer/pH-/pH+ used.

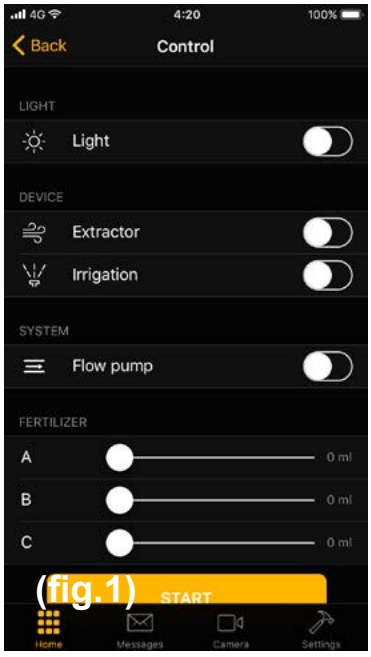
CONTROL

(fig.1) Manual controls allow you to view the status (On/Off) of various devices and manually control their activation or deactivation.
If a cultivation recipe is active, each device will automatically follow the configured states. If you manually turn a device on or off, it will revert to its configured state from the recipe or cultivation formula after a short period.

The NIDO ONE V2 flow pump, which recirculates water for measurements and adjustments, activates every 15 minutes and stays on for 1 minute. You can manually turn the pump on or off, but it will resume its automatic cycle according to the formula settings.

You can also manually trigger the dispensing of fertilizers or acid by selecting the desired amount using the slider and pressing “Start.”

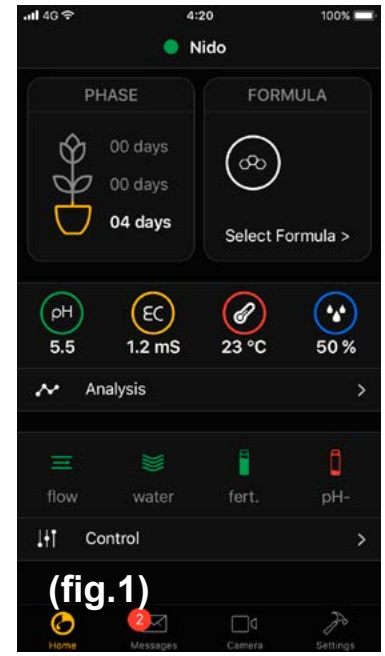
Manual device commands are automatically added or removed based on the detection of NIDO plug..



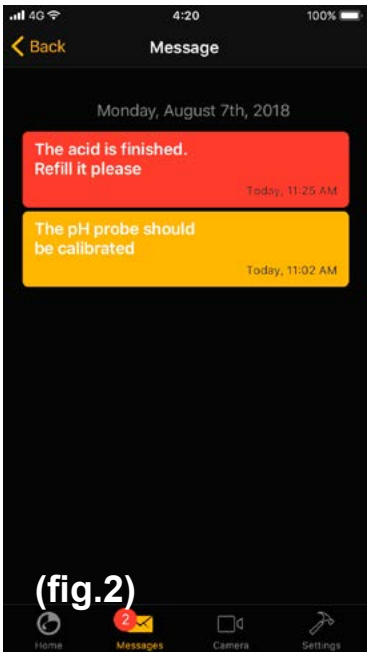
(fig.1)

(fig.1) The notification system alerts you to any issues or maintenance needs related to cultivation.

(fig.2) Yellow notifications are linked to medium-sized problems, while red notifications can compromise cultivation and must be resolved in a timely manner.



(fig.1)



(fig.2)

NIDO is offline
Today, 11:02 AM

Check the Internet connection or consult the troubleshooting section in the manual.

The current formula has days without configurations.
Today, 11:02 AM

Check the cultivation calendar and add configurations for any days not set between periods to ensure continuity in the formula.

The Smart Plug 'Name Smart Plug' is offline
Today, 11:02 AM

Ensure that the NIDO plug is properly connected, making sure there are no dividing walls or that the distance from NIDO ONE V2 does not exceed 5 meters.

The NIDO water circuit has a below average flow
Today, 11:02 AM

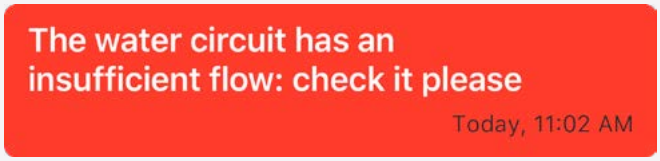
The flow in the recirculation circuit is below average. Check the tank filter or consult the troubleshooting section in the manual.

Your formula is finished, use the calendar to extend it.
Today, 11:02 AM

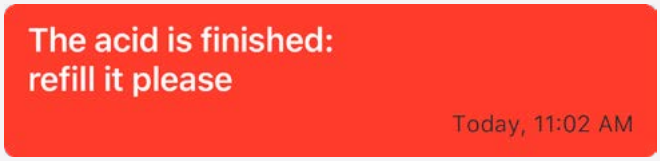
Your formula has ended. Use the calendar to extend it.

The pH probe should be calibrated
Today, 11:02 AM

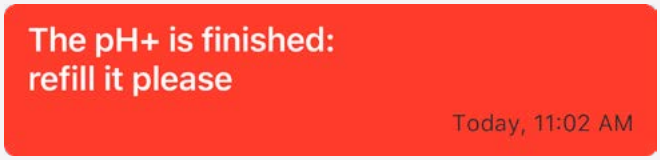
pH electrode calibration is required. Follow the instructions to complete the calibration in a few minutes.



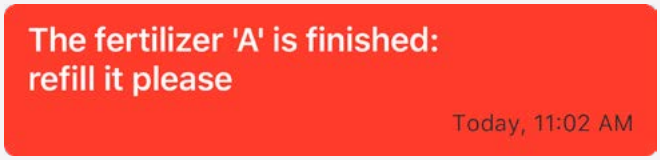
The water flow is below average. Check the tank filter or consult the manual to resolve the issue.



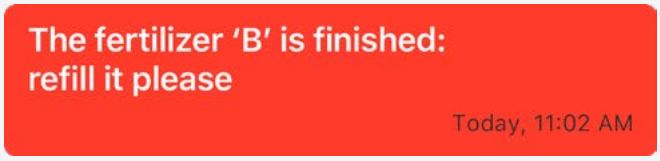
The pH- container is empty*. Refill it and wait a few hours for the levels to return to normal.



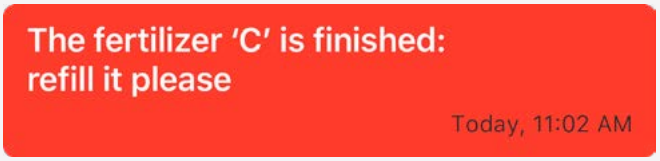
The pH+ container is empty*. Refill it and allow a few hours to restore optimal levels.



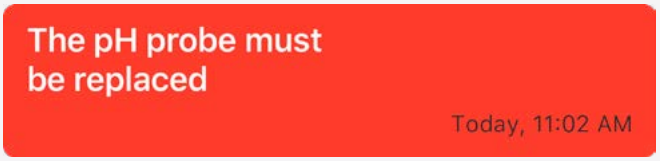
The container for fertilizer “A” is empty*. Refill it and wait several hours for the levels to fully restore.



The container for fertilizer “B” is empty*. Refill it and wait a few hours to return to normal levels.



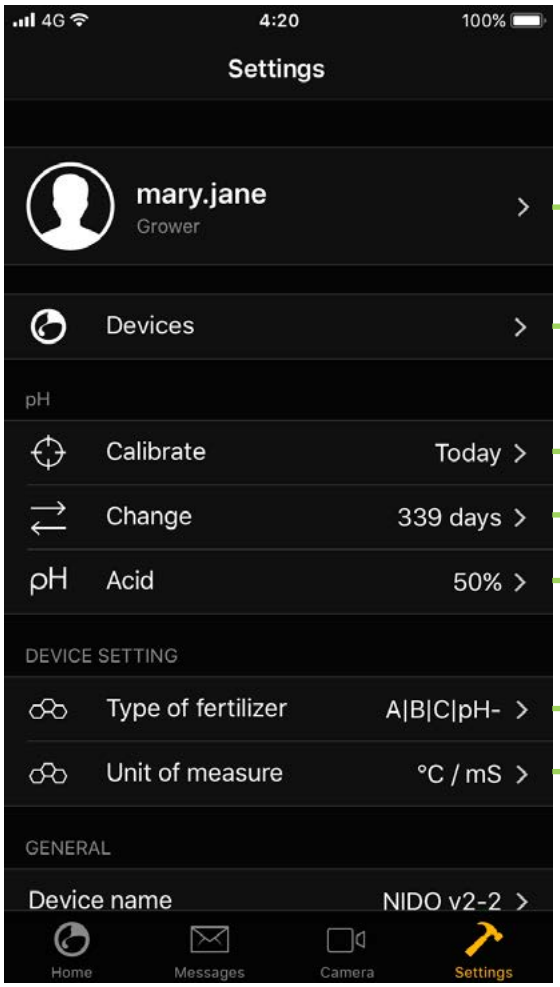
The container for fertilizer “C” is empty*. Refill it and wait a few hours to re-establish optimal levels.



The pH probe has been in use for over 1.5 years. Replacement is recommended to maintain stability and accuracy in measurements.

*It may happen that the end of fertiliser/acid message appears even when the bottles/tanks are full.

The fertilizer/pH-/pH+ level indicator is based on software algorithms. There are no sensors to detect the depletion of fertilizer/pH-/pH+, so the alerts may have tolerances in accuracy that vary depending on the type of fertilizer/pH-/pH+ used.



PERSONAL PROFILE MANAGEMENT

DEVICE MANAGEMENT - NIDO PLUG

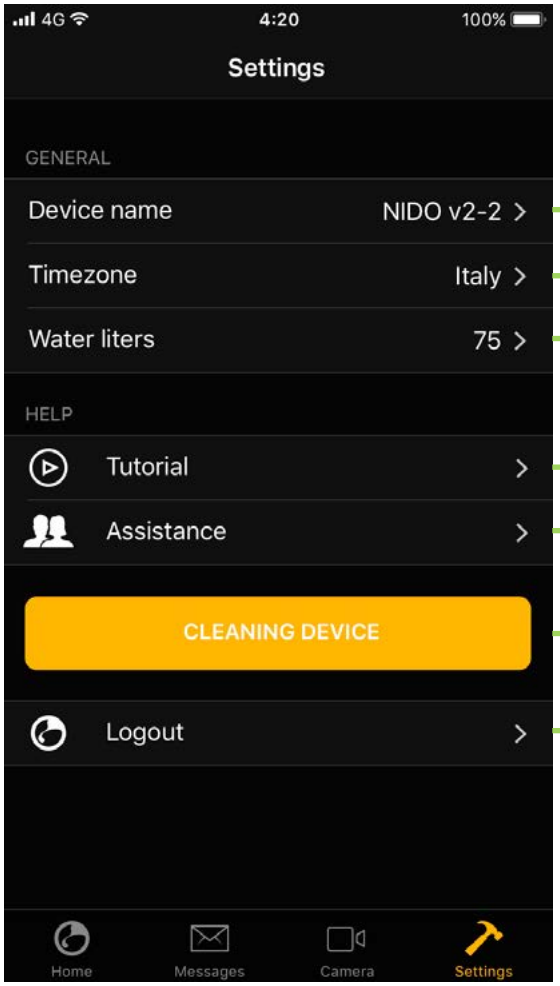
PH ELECTRODE CALIBRATION

PH PROBE REPLACEMENT

PHOSPHORIC ACID PERCENTAGE SELECTION

FERTILIZER TYPE SELECTION

MEASUREMENT UNIT SELECTION



DEVICE NAME SELECTION

TIMEZONE SELECTION

PLANT WATER LITER SELECTION

TUTORIAL SECTION

ASSISTANCE SECTION

DEVICE CLEANING

LOGOUT

PERSONAL PROFILE MANAGEMENT

(fig.1) From the personal profile management menu, you can edit your first name, last name, and phone number.

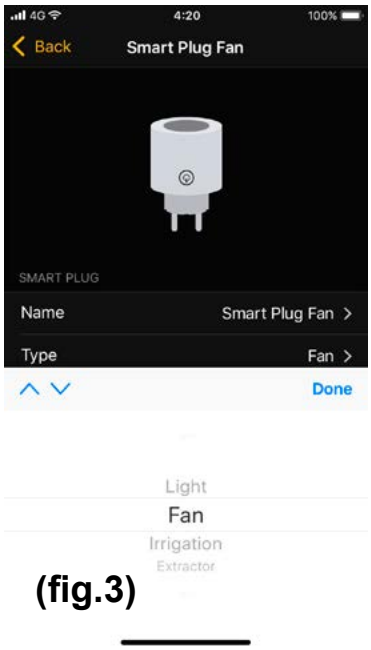
DEVICE MANAGEMENT - NIDO PLUG

(fig.2) Access the “Devices” menu to manage connected NIDO plugs.

(fig.3) By clicking on the desired NIDO plug, you can edit the associated name and specify the type of device to control (e.g., light, extractor, or irrigation). The NIDO plug supports devices with a maximum load of 10A (220V, 2.2KW).

(fig.1)

(fig.2)



(fig.3)

pH ELECTRODE CALIBRATION

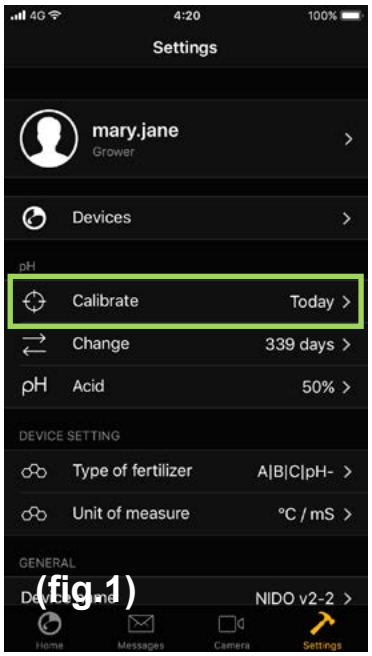
(fig.1) To calibrate the pH probe, select “Settings” and then “Calibrate” from the “Home” screen.

(fig.2) Disconnect the water IN and OUT tubes and loosen the pH probe holder. Remove the probe without disconnecting the electrical cable.

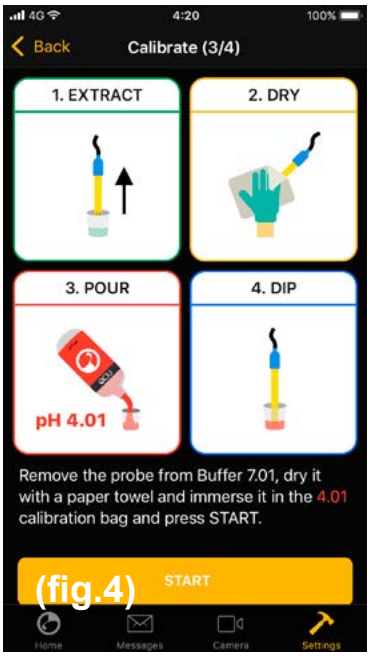
(fig.3) Clean the probe with the provided brush, dry it with a paper towel, immerse it in the pH 7.01 calibration solution, and press “START.” Wait for the system to complete the first calibration step (30 seconds - 2 minutes).

(fig.4) Remove the probe from the pH 7.01 solution, dry it with a paper towel to avoid contamination, and immerse it in the pH 4.01 calibration solution, then press “START.” Wait for the completion of the second calibration step.

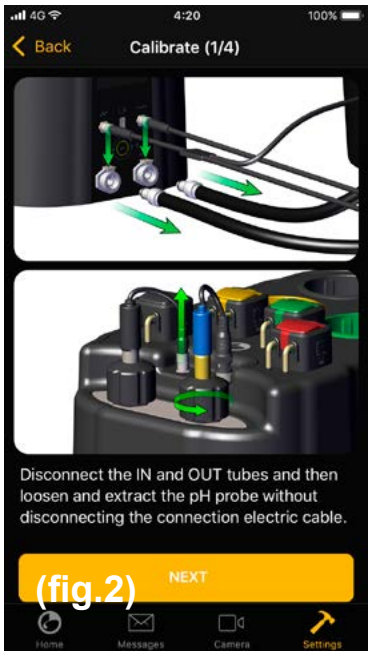
(fig.5) Once finished, remove the probe from the calibration solution, reconnect it securely to the NIDO ONE V2 holder, and restore the water IN and OUT tube connections.



(fig.1)



(fig.4)



(fig.2)

(fig.5)

(fig.3)

pH PROBE REPLACEMENT

(fig.1) To replace the pH probe, select “Settings” and then “Replace” from the “Home” screen.

(fig.2) Disconnect the water IN and OUT tubes, loosen and remove the pH probe, then disconnect the BNC connector.

(fig.3) Insert the new probe into the NIDO ONE V2 holder, tighten it securely, reconnect the IN and OUT tubes, and press “CONFIRM”.

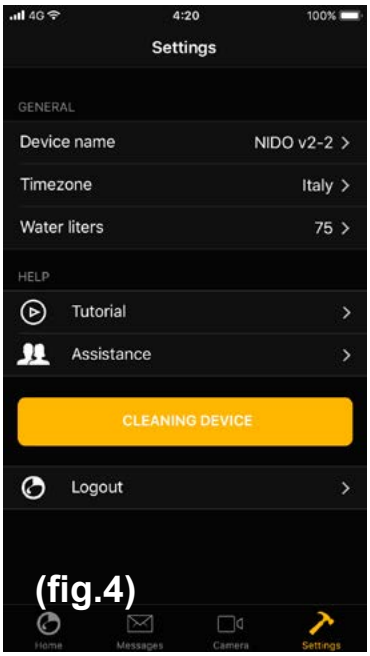
DEVICE CLEANING

(fig.4) From the “Settings” page, select the “Device Cleaning” button.

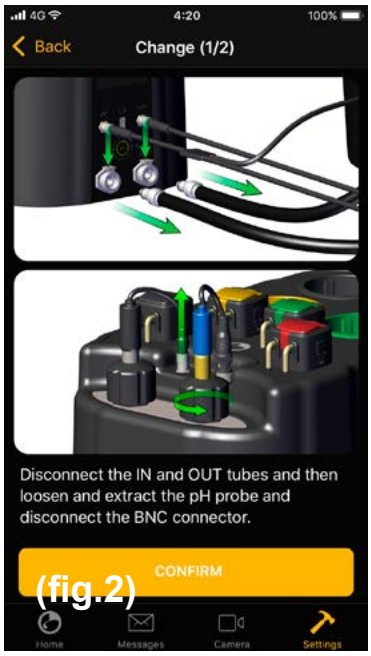
(fig.5) Fill the collection tank with tap or distilled water, then press “Next”.

(fig.6) Remove and clean the 4 NIDO ONE V2 cartridges, filling them halfway with tap or distilled water. Place the cartridges back into their designated slots in NIDO ONE V2 and press “START.” Once the cleaning procedure is complete, click “OK” to finish.

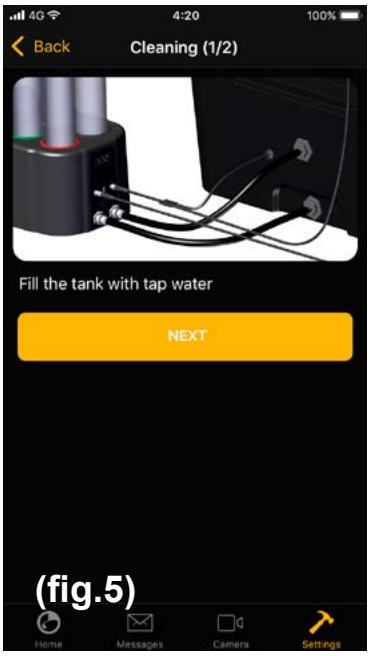
(fig.1)



(fig.4)

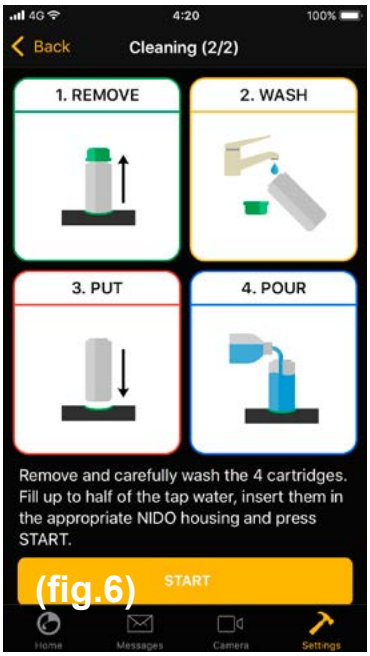


(fig.2)



(fig.5)

(fig.3)



(fig.6)

LIMITED WRITTEN GUARANTEE
NIDO ONE V2 comes with a 2-year, 6-month limited written warranty on consumables (pH probe, EC probe and dosing pumps).

ASSISTANCE
If you need technical assistance, we are here to help you.
assistenza@nidopro.com

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