

orbit

User manual BANDERBIT 5Hz

GPS GUIDANCE FOR FUMIGATION AND FERTILIZATION



ARBIT Engineering

www.arbitingenieria.com.ar

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consulta@arbitingenieria.com

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General Description

This GPS electronic device allows the user to drive in a comfortable and accurate way your farming machine by the use of a LEDs bar. This bar indicates the correction of the path while the user is driving by turning off the LEDs. The device has 7 LEDs on each side and a central one. Also, the user can configure 10 sensibility levels for accurate and comfortable work.

This device is mainly used in fumigation machines, dragging machines and fertilizing machine.

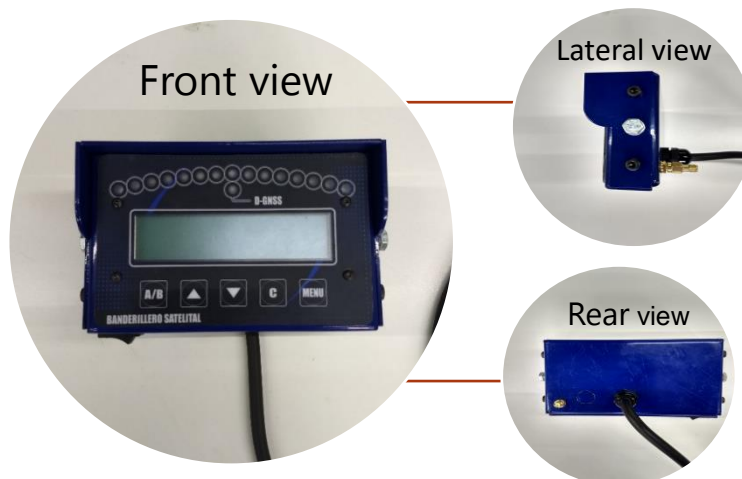
- Easy installation. Easy to migrate to another machine.
- It has a 5Hz GPS.
- It is robust, resistant and reliable, due to its metallic structure.
- LCD screen indicates: Speed, Passes, Hectares performed, Deviation (meters), liters / hectare (model with flow meter).
- It has a pause function and pause return point distance. The number of the pause pass is also indicated.

DINSTINCTIVE:

- In case of break or unusual power off, the device is going to save last state and position of working at the time of turning off.
- It has caudalimeter connection. (Specific model)
- With 5hz GPS, which make it faster and more accurate.

Technical Specification

	Value	Unit
Supply Voltage	12	Volt CC
Supply cable length	4	meter.
Antenna cable length	2,9	meter
Dimensions	16 x 9 x 4,5	cm

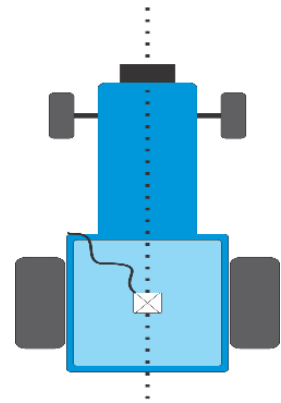


Installation Guide

The BANDERBIT installation is carried out as follow:

As a first step, the device must be fastened where it is desired to be placed. For this purpose, lateral bolts (1/4 ") are used to fix it.

- ❶ Connect the GPS antenna at the rear of the device.
- ❷ Mount the antenna device in the center of the machine roof as seen in the image. The antenna has a magnet for positioning it on every ferromagnetic surface.



- ❸ Connect the supply cables, each one has their respective terminals identifying the positive wire (+) with brown color and the negative (-) with light blue color. *The negative one should be connected after the power switch of mass, for protecting the machine starting purpose.*





Check your vehicle doesn't have the positive of power supply at the chassis. In that case, contact the maker.

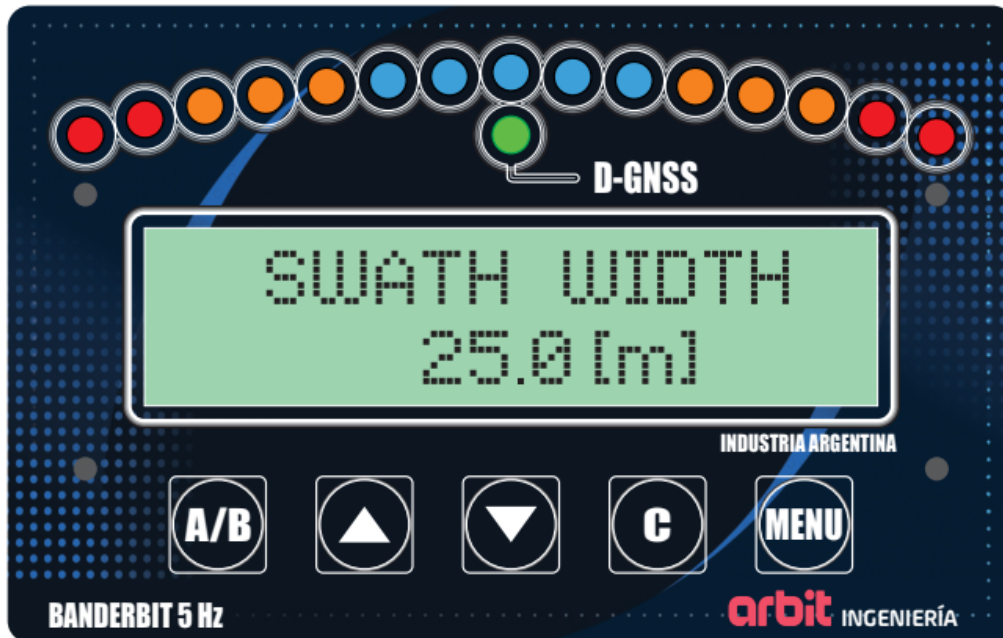
Turn on and configuration

Once the equipment is installed, it is turned on by pressing the power switch located in the lower left corner of the device.

When the device has been turned on, it will start searching for satellites, although it will still be possible to configure it during this search process.

Job width setting

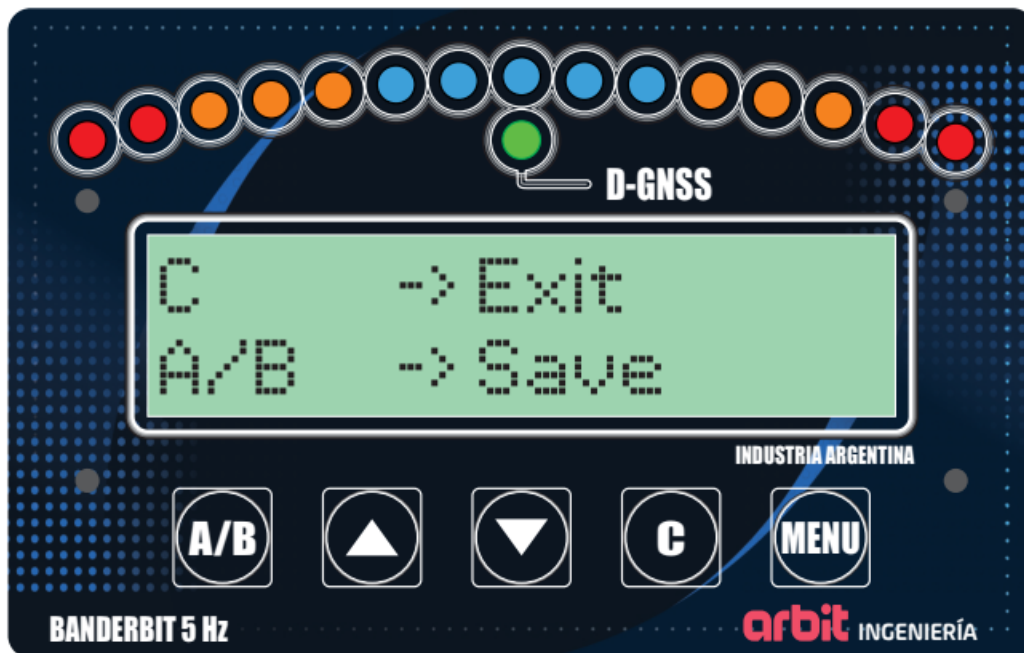
- 1 Press button  and then proceed to configure the swath width. Then select the width using the arrows in  the board.
- 2 Press button and in case of having caudalimeter, then proceed to its configuration, otherwise press menu again.



- 3 Press and then select a sensitivity level of working



- Press **MENU** then choose whether you want to save the changes made. In case you want to save the changes, press **A/B** otherwise, press **C**




Once all these steps have been completed, the device is ready to operate.


Operation Mode

Tracing First pass

To start operating, Pass A / B is marked to serve as a guide for the rest of the operations.

- Once the machine is located in position A, and it is without movement, point A of the start of the pass is entered by pressing the button 

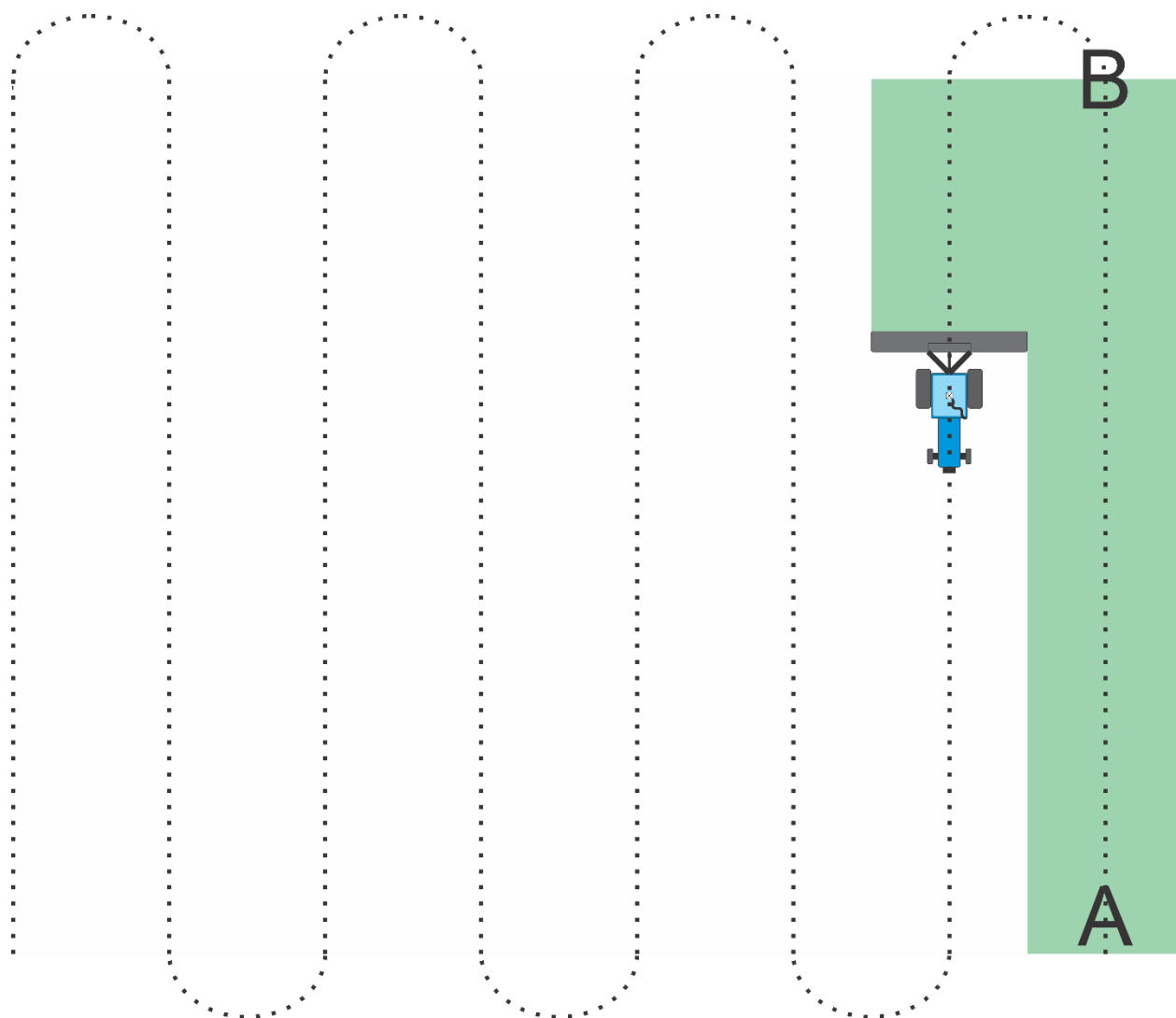


- Point **B** is entered at the end of the main pass by pressing  again on the desired position, preferably with the machine without movement.

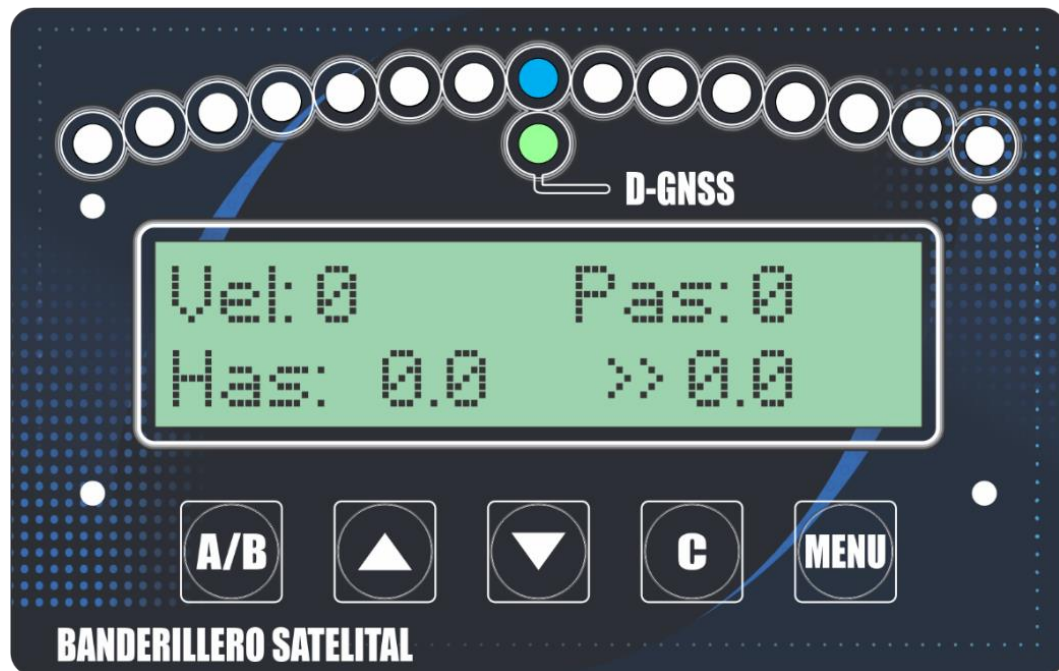
From now on, the user will be able to start operating the machine by making the passes.



Below is an example of the path from the pass from point **A** to **B**.



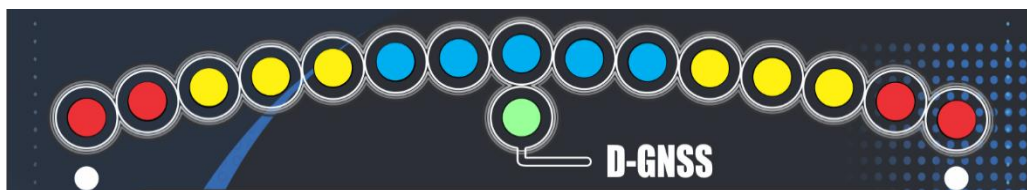
- ❑ In the upper left corner of the display the speed is indicated with the initials "Vel:"
- ❑ The worked hectares are indicated with the acronym "Has:" in the lower left corner of the display.



- ❑ The direction to which the deviation should be corrected and the number of meters or centimeters are displayed in the lower right corner.

LEDs light bar

This is used to indicate where the driving direction should be corrected in order to keep the driving direction centered, the more deviation the more lights that will turn on. Each led indicates a certain number of meters according to the configured sensitivity level.



The correct way to drive is to keep only the **blue** center light on. This would indicate the user that they are centered on the direction of the pass..

Direction of lightbar

This option will be found in the menu. The user is able to choose the direction of the lights in two different types.

Same direction

The light guidance will turn on, in the same way that the machine is going out of the central line. If the machine goes to the left of the central line, the lights will be turned on in the left direction of the bar.




Opposite direction

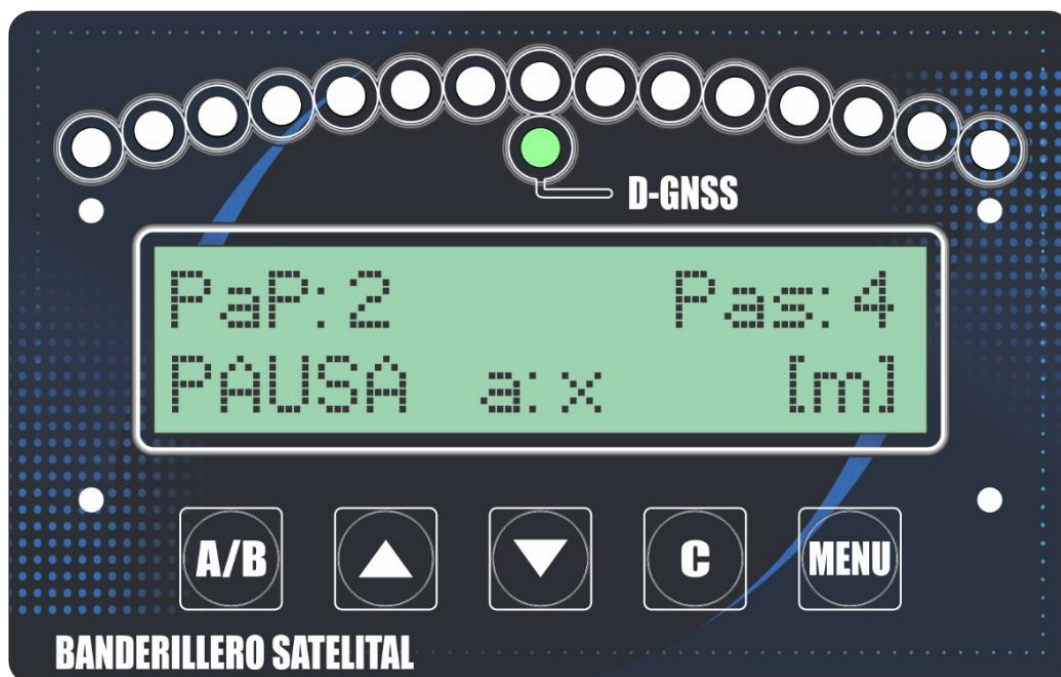
The light guidance will turn on, in the opposite way that the machine is going out of the central line. If the machine goes to the left of the central line, the lights will be turned on in the right direction of the bar.



Pause and Return to the Pause Point


This function is used so that the user can save a point in any of the passes of the field, in case of having to refuel or in the case of some unfortunate or unforeseen event. Allowing the user to return to work at the same point again.

To pause, the user must stop at the point they want to pause and then press . Next, the "PaP" (pause pass) will be indicated in the upper left corner of the screen, which indicates the pass in which the pause point was saved.

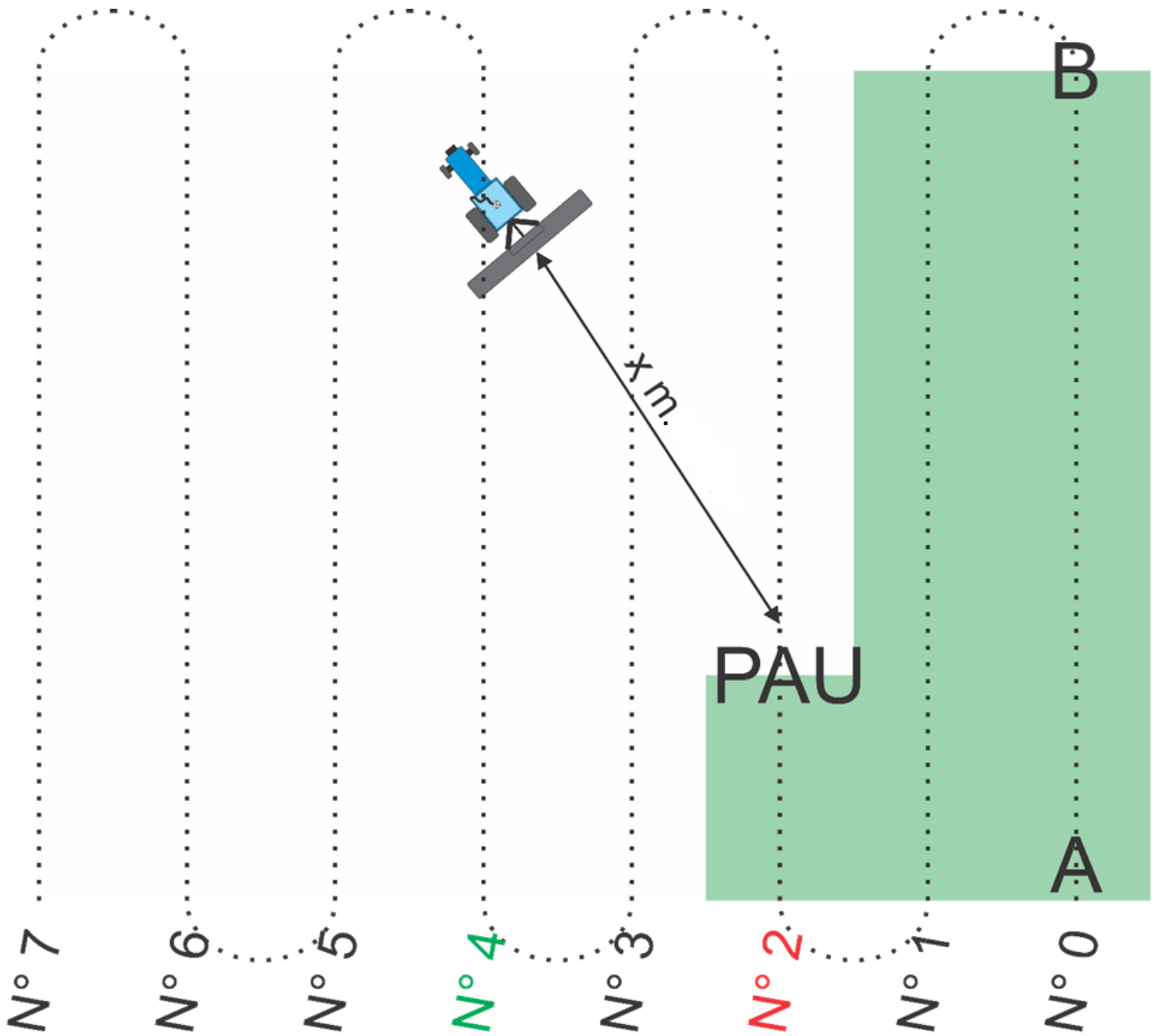


In the upper right corner of the screen "Pas" will be displayed, which will indicate the number of the pass we are currently at.

Meanwhile, the distance from the current location to the pause point will be indicated at the bottom of the screen, making it easy for the user to return to the same place where the position was saved.

To return to work again, you must go to the location where the pause was made and press  to leave it and continue with the work.

Below is an example with the above data about the pause function.



- ⦿ In case you have to turn off the device for any unforeseen reason or situation, you only have to pause the device and turn it off. In this way the position can be retained and later return to work. When you turn it on, you are asked if you want to recover the Pause position, press for this **A/B** or if you want to do a new job, press

