

CALIBRATION OF THE DPA GPS BOX

DPA with GPS antenna for T15, T17 and T18.

Before using your control box with GPS antenna, you can weigh it to find out your flow rate in kg/h.

CALIBRATION/WEIGHING

To do your weighing, your distribution motor must be switched ON and your fan motor switched OFF.

While weighing, press simultaneously down the "PESEE" and "AMORCAGE" switches.

The "ON/OFF/WEIGHING" switch is a 3-position switch:

- Top position: ON
- Middle position: OFF
- Lower position: WEIGH



ADJUSTMENT AND INSTRUCTIONS FOR THE DPA GPS BOX

Before using your control box with GPS antenna, please calculate the flow rate by referring to the settings table for your machine.

1. Thanks to the graduated potentiometer, set the flow rate of your machine, as indicated on the setting table.

2. Installing your GPS antenna outside the cab and switch on your machine, sowing and ventilation ON and start seeding.

3. After adjusting your flow rate on the graduation, start sowing until you reach your desired working speed, press the memorised speed switch (just one press). You are now programmed in DPA. The red light will stop flashing and the green light will come on.

4. The “amorçage” switch is used to turn the seeding rotor without moving it forward (this is useful for seeding field corners).



The red light comes on if your DPA is deprogrammed or if you are stopped with the tractor.



POSITIONING THE GPS ANTENNA :

The GPS antenna must be positioned outside the tractor cab. The antenna is magnetised.

RECOMMENDATIONS FOR USE :

The flow rate is set manually at the start. There are 2 solutions for calculating your flow rate in kg/hour.

- You can do a weighing in 1 minute and obtain grams/minute then convert into kg/hour to obtain your flow rate (weighing is done using a big bag or bucket). To help you do your weighing, consult the instructions for your T15, T17 or T18 seed drill (single or double tank and electric or hydraulic).
Once you have your flow rate in kg/hour, look on the setting table for the flow rate that is closest to your result (the setting tables are inside the seed drill manual or on the Excel document). The number opposite the chosen flow rate in kg/hour gives you the setting number on which to position the graduated potentiometer on the control box.
- Or you can calculate the flow rate based on your data (working width x speed x dose/hectare). To calculate the flow rate simply, we have an Excel table which calculates the flow rate automatically and gives you the result depending on your speed. On the Excel table, you need to click on the sheet corresponding to the model of your seed drill and follow the steps for using it. The first table at the top left is used to enter your data (width/speed/dose) and give you the result of the flow rate obtained in kg/hour. The second table below indicates the setting number to be used on the control box and gives you the numbers for each rotor. The choice of rotor is made using the “seeder document” (*the seeder is a document that suggests the type of rotor to use depending on the seed and seeder*). Finally, using the results obtained, choose the setting closest to your flow rate.

Once you have the position of your setting, simply turn the switch manually to the number. Then installing your GPS antenna outside the cab and switch on the seeder, activate seeding and ventilation (press ON) and start seeding (as indicated in step 2).

Sow until you reach your desired working speed, then press the memorised speed switch (just one press). The red light will stop and the green light will come on, flashing and then fixed, indicating that the DPA is operating and programmed. At this point, if you speed up or slow down, the flow rate will adapt; it is proportional to the forward speed.

ADDITIONAL INFORMATION :

- **Memorised speed:** The speed will always remain memorised on the DPA box even if you disconnect it from the tractor. The speed will always remain memorised unless the "memorised speed" switch is pressed again.
- **“Amorçage” :** The amorçage switch allows you to turn the seeding rotor without moving forward, which is useful for sowing in the corners of the field or for weighing. As soon as you release the switch, the DPA starts to operate normally.
- **Switches:** The (MARCHE – ON /ARRET - OFF /PESEE - WEIGHNING) switch is a 3-position switch for seeding and the (MARCHE - ON/ARRET - OFF) switch is a 2-position switch for ventilation. The memorised speed and “amorçage” switches are pushbutton switches. The dimmer switch is a potentiometer allowing you to adjust your flow rate.
- **Red light:** The red light comes on when the tractor is stopped or when the DPA is not programmed. This does not mean that your motor is faulty, it indicates that the motor is at a standstill because the tractor has stopped.
- **Lift cut-off:** With the GPS antenna DPA, a lift cut-off option is provided to cut off the distribution at the end of the field. The cut-off option must be placed on the implement's lift so that it can be tapped to cut off or restart the distribution.
- **Settings tables :**

There are 3 different motors for our seed drills giving 3 setting tables.

- The 40/60 rpm motor is the standard motor fitted as standard on all seed drills.
- The 15 rpm motor is specifically for seed drills fitted with slow motors on request.
- The 150 rpm motor is specifically for seed drills fitted with high-speed motors on request.

EXAMPLE :

Example using a standard T18 seed drill with 40-turn motors

You want to sow micro-pellets at 4 km/h, with a working width of 4.80 meters and a dose per hectare of 10kg. Your flow rate is 19.2 kg/h. For micro-pellets, we use the green groove, so choose the setting number from the table for the corresponding groove. Choose the nearest setting number, so position 10 or 11. Turn the graduated wheel on the control box to number 10 or 11.

For the best use of this equipment, please follow these recommendations. The DELIMBE team would like to thank you for your trust.