

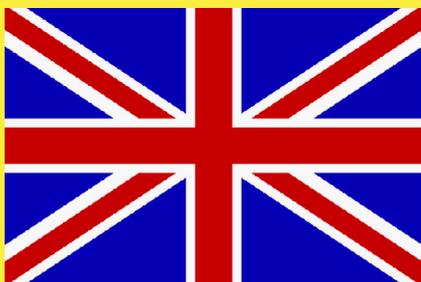


**Original operating instructions**

**3.2**

**Read this carefully before operating!**

Version: 09/2011, V.1.4



Best. Nr.: 00600-3-661

# It should NOT be

*an inconvenience or a luxury to read and comply with the operating instructions; you cannot simply experience from others that something is a good product, then make the purchase and assume everything will be self explanatory.*

*Those who go down this route not only inflict damage on their own property, but make the mistake of attributing the cause of any failure to the machine, and not to themselves.*

*In order to be sure of success you must get into the spirit of the thing, by learning about the purpose of each individual device on the machine and by gaining experience in how to use it. Only then will you be satisfied both with the machine and with yourself. These operating instructions are intended to help you achieve this.*

*Leipzig-Plagwitz 1872*

# Table of content

1	Guarantee .....	4
2	Quick start .....	4
2.1	Scope of delivery and fastening.....	4
2.2	Electrical connection.....	5
2.3	Control module .....	7
2.4	Commissioning the device.....	8
2.5	Use on a field.....	8
2.6	Seed rate calibration test.....	9
2.7	Emptying the container .....	9
2.8	Automatic Turnoff .....	9
3	Status messages and troubleshooting.....	10
3.1	Control messages.....	10
3.2	Support in the event of problems .....	11
4	Accessories .....	11
4.1	Wiring set Tractor (type no: 201921 / 00410-2-022) .....	11
5	Programming 3.2 (Customer service).....	12
5.1	Blower .....	12
5.2	Sowing wheel-Motor .....	13
6	Own notes .....	14

## 1 Guarantee

On acceptance, please immediately check for any damage incurred to the device during transport. Claims made for transport-related damage at a later date cannot be accepted.

We provide a one year factory warranty from the date of delivery (your invoice or delivery note serves as the warranty card).

This guarantee is limited to faults in material or design/construction and does not extend to parts that are damaged by normal or excessive wear and tear.

The guarantee is voided if:

- the damage is caused by external forces (e.g. opening of the controls)
- operator error is at issue
- the stipulated requirements are not fulfilled
- the device is modified, augmented, or fitted with third-party spares without our consent.

## 2 Quick start

### 2.1 Scope of delivery and fastening



Control module

Power cable

Module bracket

Fasten the mount (supplied as standard) into the cabin with two screws.



**TIP:** Pay attention to the angle at which you are viewing the module to ensure optimum readability of the display. You might have to bend the mount slightly to set the correct angle.



**ATTENTION:** If possible, do **not** roll the cable into a coil!

## 2.2 Electrical connection



You can connect the standard cable included in the scope of delivery directly to the 3-pin standard socket in the tractor cab. Connect the other end with the control module.

The fuse (30A) is on the right side of the control module.

Store extraneous cable in the driver's cab to avoid trapping it.



**TIP:** You can also use the power cable (vehicle wiring set) that is delivered as standard with the PS. This should connect the control module to the battery directly.



### IMPORTANT NOTES:

The 12 Volt power supply may NOT be connected to the cigarette lighter!

After using the device, the controller should be disconnected (for various safety reasons).



**ATTENTION:** Failure to observe these instructions can result in damage to the control module!



**ATTENTION:** If the battery is charged by a charger which is in the operating mode "Start", this may result in voltage peaks! These can damage the control module's electric system if the control module is also connected when charging the battery!

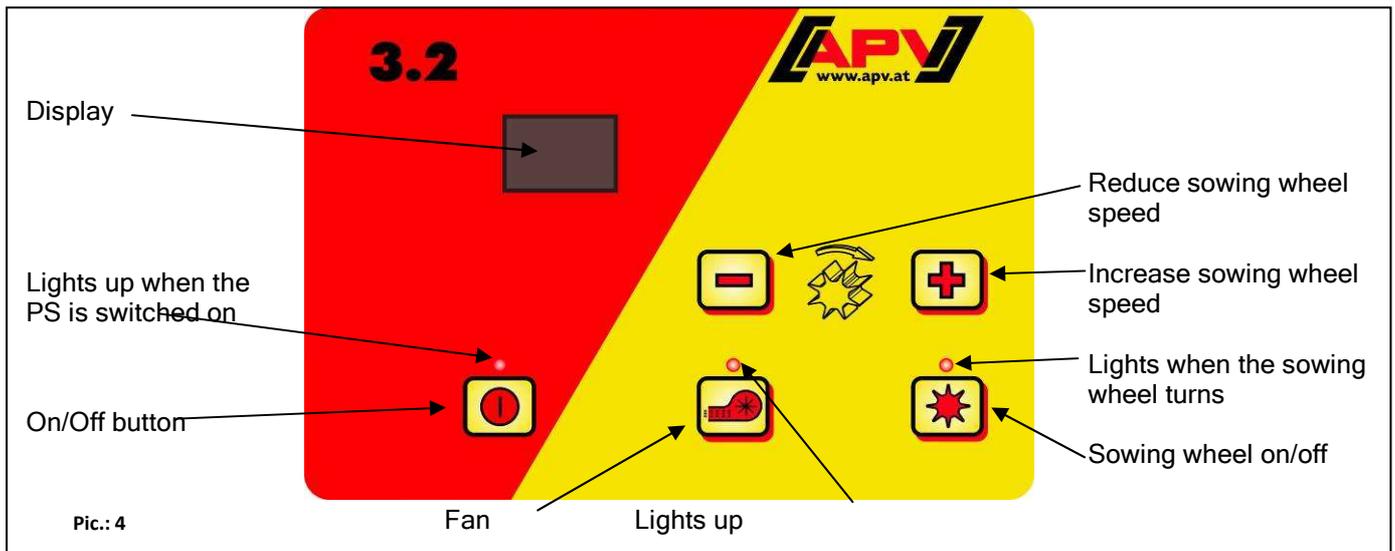


Pic.: 3

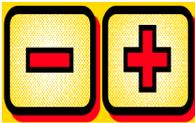
30A fuse

<b>6-pin plug connector</b>	<b>3-pin plug connector</b>
Connection to the sowing implement (equipment cable)	Connection to the battery (power cable)

## 2.3 Control module



The "On/Off" button, which is used to switch the device on and off, is located at the bottom left.



You can adjust the speed of the sowing shaft with these buttons.



Underneath this is the button for the sowing wheel, "on" and "off". The sowing wheel starts to turn upon actuating the "on/off" button. At the same time the indicator light starts to light up.



Switches the fan on or off.  
(not possible with hydraulic fans!)

## 2.4 Commissioning the device

After switching on the device with the  button the version of the device is shown. The indicator lamp above the button begins to light up - this shows that the power supply is present.

The speed of the sowing wheel is shown on the two-digit display (speed in %).

You can now adjust the   speed of the sowing wheel with these buttons.

Now press the  button and the fan motor starts to run.

As soon as you  press the button, the sowing shaft starts to turn and you can start the sowing process.

## 2.5 Use on a field

If you want to start sowing immediately, then press the  button.

**1st stage:** Red LED indicator lamp  beside the button flashes (fan motor starting).

**2nd stage:** After a few seconds the red LED indicator lamp beside the  button lights up (fan motor running).

**3rd stage:** Once the green LED indicator lamp lights  the drive motor that turns the sowing shaft and conveys the seed is switched on.

When turning at the end of each row, or when moving from one field to another, just press the  button so that the green LED indicator lamp goes out.

This stops the sowing wheel and now only the fan motor is running.

On completion of work, press the  button on the control module to switch off the fan motor and the sowing wheel.

## 2.6 Seed rate calibration test

The seed rate calibration test will be started by pressing and holding the  button while the other button  is pressed.



**Note:** Always take care that the fan motor is switched off before starting the seed rate calibration test.

After starting, the sowing wheel starts to automatically turn for exactly one minute without fan motor.

The seed rate calibration test can be cancelled at any time by pressing

the    buttons or the  button on the control module.

## 2.7 Emptying the container

Start the emptying of the container by pressing and holding the button  while pressing the button  simultaneously.

Thus the sowing wheel starts to turn at maximum speed without the fan motor.



**Note:** Always take care that the fan motor is switched off before starting the seed rate calibration test.

The function running can be cancelled at any time by pressing the    buttons or the  button.

## 2.8 Automatic Turnoff

If the turned on control box is not used within 1,5h (no button pressed), the control box is automatically turned off.

### 3 Status messages and troubleshooting

#### 3.1 Control messages

Fault messages will be supported with an audible warning tone so that they can be detected more quickly. This must be acknowledged with the  button and the scatter device thus switched off.

These fault messages can be displayed.

At the same time the display flashes, alternating between "E" and the respective fault code.

Display	Cause	Solution
<b>01</b>	Displayed if the operating voltage is too low.	Reduce consumers; check battery; check cabling; check generator.
<b>02</b>	Indicates that the operating voltage is too high.	Check generator
<b>03</b>	Displayed if the internal control voltage is below a minimum value.	Return to factory
<b>04</b>	Displayed when the sowing wheel cannot turn or when the motor is loaded for too long at its threshold.	If this message appears on the display, you must switch off the device and check whether solids or similar materials are preventing or impeding the sowing wheel or the mixer from turning!
<b>05</b>	Means that the drive motor for the sowing wheel is not connected. Check the cable and connectors for faults or damage.	Check the cable and connectors.
<b>06</b>	Displayed if the motor (sowing shaft) is connected and not overloaded but motor is blocked.	Control if there is something which blocks the sowing shaft. If this is not the cause, please contact the customer service.
<b>07</b>	Indicates that the fan motor cannot turn or that the motor is loaded for too long at its threshold.	If this message appears on the display, you must switch off the device and check whether objects are preventing or impeding the fan from turning.
<b>08</b>	Is displayed if cables are not connected or cabling is faulty.	Check the cable and connectors.
<b>09</b>	Displayed if the motor (fan) is connected and not overloaded but does not turn.	Please contact customer services.



**Attention:** Charging the battery using a charger in the operating mode "Start" can lead to voltage peaks! These can damage the control module's electric system if the control module is also connected when charging the battery!

## 3.2 Support in the event of problems

### Problems

After pressing the



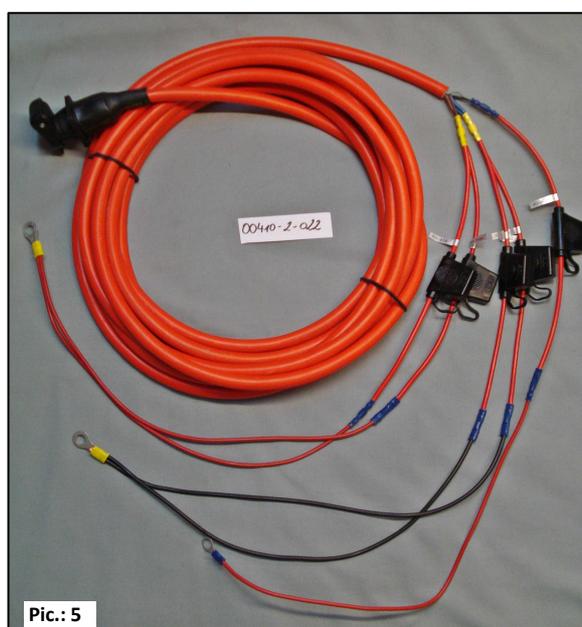
button, no indication on the display.

### Possible remedy

- Check whether the power cable is plugged into the control module correctly and is also connected with the right pins to the battery.
- **ATTENTION:** An incorrect connection or removal of the floating circuit breaker at the positive pole of the power cable can result in damage to the control module!

## 4 Accessories

### 4.1 Wiring set Tractor (type no: 201921 / 00410-2-022)



There is a retrofit-kit as an accessory for the control module power supply equipped without the standard 3-pin socket on the tractor. This consists of an 8 m long cable.

At the battery, this is screwed right to the battery terminals, and at the other end is a standard three-pin socket.

### Connection diagram:

Red	( 2x2,5mm <sup>2</sup> cable)	=	+ 12 Volt
Black	(2x2,5mm <sup>2</sup> cable)	=	+ 12 Volt
Red	(2,5mm <sup>2</sup> cable)	=	- Ground

## 5 Programming 3.2 (Customer service)

To call up the programming menu, push the following buttons at the same time (see image).

Please note that you should press the  button at first and immediately after that press the  button or the  button shortly in addition.



To confirm the adjusted programming press the  button or the  button.

### 5.1 Blower

This menu-point is necessary when there is a hydraulic or p.t.o. shaft driven blower instead of an electric one. For instance the PS can be retrofitted from an electric to a hydraulic blower, or the PS has a standard hydraulic blower.



ON - electric blower existing

OF - hydraulic blower existing

If you repeat pressing the button  „ON“ or „OF“ (see display) you can choose and confirm with the



button or the



button.

## 5.2 Sowing wheel-Motor

Here you set which transmission is being energised.

If you repeat pressing the  button „8“, „16“, „17“ (see display) you can choose and confirm with the  button or the  button.



8 - P8 gear motor on PS 120 - 500 serial.



16 - P16 gear motor on PS 800 serial.



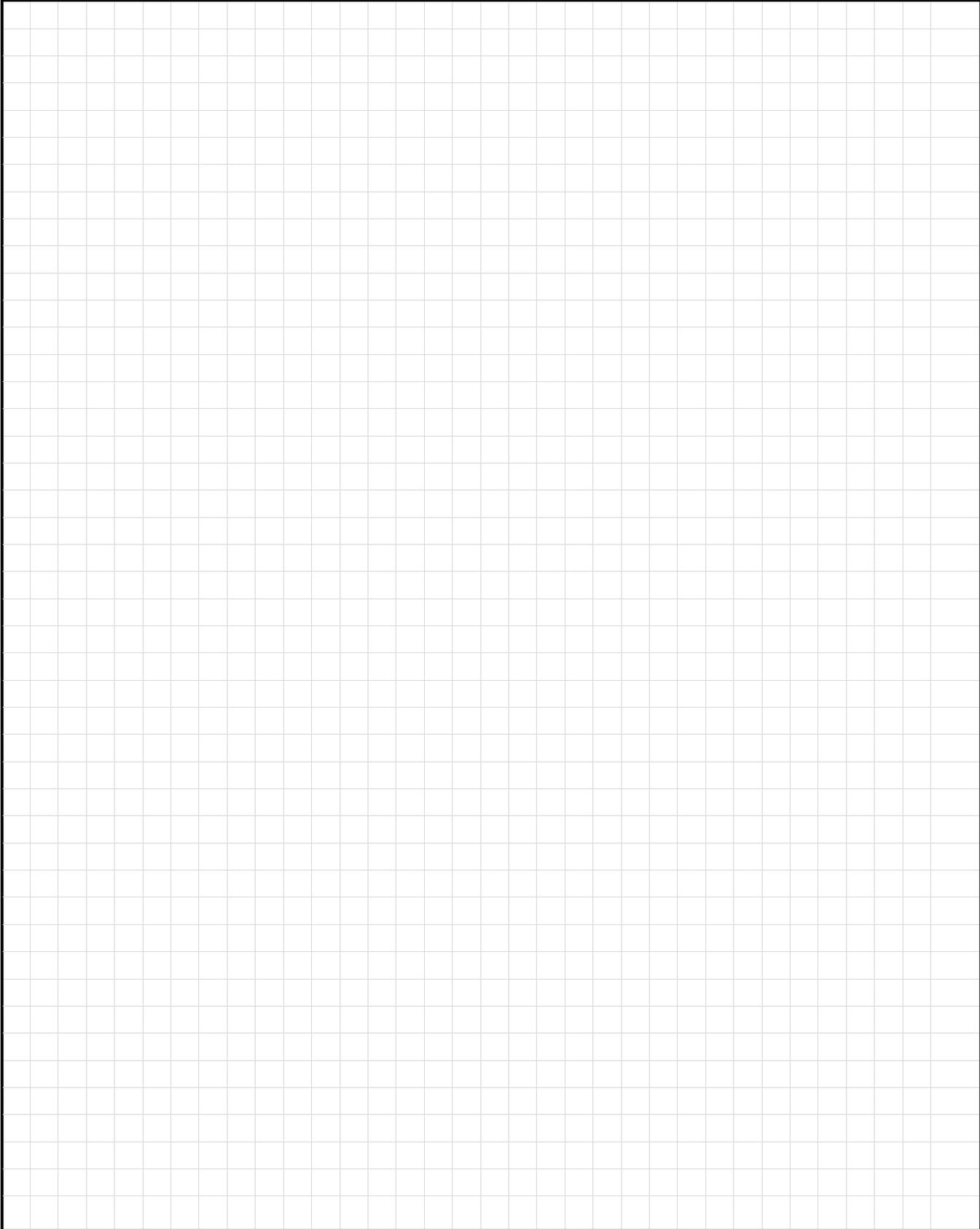
17 - P17 gear motor on PS devices **currently without any function!**

**➔ DO NOT USE !**

If you repeat pressing the  button „8“, „16“, „17“ (see display) you can choose and confirm with the  button or the  button.

## 6 Own notes

A large rectangular area filled with a fine grid pattern, intended for taking notes. The grid consists of small squares and occupies most of the page below the header.



# Quality for professionals

Inspired by farmers & realised by professionals



**APV Technische Produkte GmbH**  
Dallein 15  
A-3753 Hötzelndorf

**Tel.: +43 (0) 2913 - 8001**  
**Fax: +43 (0) 2913 - 8002**

**[www.apv.at](http://www.apv.at)**  
**[office@apv.at](mailto:office@apv.at)**