Operating Manual

AMAZONE

ISOBUS software

Seed drill

Cataya / Centaya / Avant 02





MG5805 BAG0145.19 01.24 Printed in Germany



Please read this operating manual before initial operation. Keep it in a safe place for future use!



en



Reading the instruction

manual and adhering to it should not appear to be inconvenient and superfluous as it is not enough to hear from others and to realise that a machine is good, subsequently purchase it, and to believe that now everything would work by itself. The person concerned would not only harm themselves but also make the mistake of blaming the implement for the reason of a possible failure instead of themselves. In order to ensure a good success, one must consider the design of the object; in other words, one must familiarise themselves with every aspect of the machine and gain practice in handling the machine. Only by doing so would one be satisfied both with the machine and also with oneself. To achieve this is the purpose of this instruction manual.

Leipzig-Plagwitz 1872. Rud. Sark!



Manufacturer's address

AMAZONEN-WERKE				
H. DREYER SE & Co. KG				
Postfach 51				
D-49202	Hasbergen, Germany			
Tel.: + 49 (0) 5405 50 1-0				
E-mail: amazone@amazone.de				

Spare part orders

Spare parts lists are freely accessible in the spare parts portal at <u>www.amazone.de</u>.

Please send orders to your AMAZONE dealer.

Formalities of the operating manual

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Dear Customer,

You have chosen one of the quality products from the wide product range of AMAZONEN-WERKE, H. DREYER SE & Co. KG. We thank you for your trust in our products.

On receiving the implement, check to see if it has been damaged during transport or if parts are missing. Using the delivery note, check that the implement has been delivered in full, including any special equipment ordered. Damage can only be rectified if problems are claimed immediately.

Before initial operation, read and comply with the information in this operating manual, and particularly the safety instructions. Only after careful reading will you be able to benefit from the full scope of your newly purchased implement.

Please ensure that all the implement operators have read this operating manual before they put the implement into operation.

Should you have any questions or problems, please consult this operating manual or contact your local service partner.

Regular maintenance and timely replacement of worn or damaged parts increases the lifespan of your implement.

User evaluation

Dear Reader,

We update our operating manuals regularly. Your suggestions for improvement help us to create ever more user-friendly operating manuals.

AMAZONEN-WERKE

H. DREYER SE & Co. KG

Postfach 51

D-49202 Hasbergen, Germany

Tel.: + 49 (0) 5405 50 1-0

E-mail: amazone@amazone.de



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User information

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1 User information

The User information section provides information concerning the operating manual.

1.1 Purpose of the document

This operating manual

- describes the operation and maintenance of the implement.
- provides important information on safe and efficient handling of the implement.
- is a component part of the implement and should always be kept with the implement or the towing vehicle.
- must be kept in a safe place for future use.

1.2 Locations in the operating manual

All the directions specified in the operating manual are always viewed in the direction of travel.

1.3 Presentations used

Instructions and reactions

Activities to be carried out by the user are presented as numbered instructions. Always observe the sequence of the instructions. The reaction to instructions is indicated by an arrow where applicable.

Example:

- 1. Instruction 1
- → Reaction of the implement to handling instruction 1
- 2. Instruction 2

Lists

Listings without a mandatory sequence are presented as a listing with bullets.

Example:

- Item 1
- Item 2

Item numbers in illustrations

Numbers in round brackets refer to the item numbers in the illustrations. Example:

(1) Position 1



General Safety Information 2

Knowledge of the basic safety information and safety regulations is a basic requirement for safe handling and fault-free implement operation.

The operating manual			
 must always be kept at the place at which the implement is ope ated. 			
 must always be easily accessible for the user and mainte- nance personnel. 			

2.1 Presentation of safety symbols

Safety instructions are indicated by the triangular safety symbol and the highlighted signal word. The signal word (DANGER, WARNING, CAUTION) describes the severity of the risk, and carries the following meaning:



WARNING Indicates a medium risk, which could result in death or (serious) physical injury if not avoided. If the instructions are not followed, then this may result in death

or serious physical injury.



IMPORTANT

NOTE

Indicates an obligation to special behaviour or an activity required for proper implement handling.

Non-compliance with these instructions can cause faults on the implement or disturbance to the environment.

Indicates handling tips and particularly useful information.

These instructions will help you to use all the functions of your implement in the best way possible.





3 Product description

The ISOBUS software and an ISOBUS terminal make it easy to control, operate and monitor the AMAZONE implements.

The ISOBUS software works with the following AMAZONE seed drills:

- Cataya
- Centaya
- Avant 02

During operation

- the work menu shows all work data,
- the implement is operated through the work menu,
- the ISOBUS software controls the spread rate according to forward speed.

3.1 Software version

This operating manual is valid from software version:

NW257-H / NW386

Every piece of software installed must be up-todate.

Otherwise:

- Operation is not possible
- Contact the dealer





3.2 Hierarchy of the ISOBUS software





3.3 Field / settings menu

The field menu is active after switching on the terminal



Switch to the field menu



Switch to the settings menu

 \rightarrow The selected symbol is displayed in colour.

Field menu for operating the implement:

Setting menu for settings and management:



4 Field menu

- Work menu Operating the implement on the field
- Filling menu
- Calibration menu
 To check the target rate before seeding
- Emptying menu
- Documentation menu



Possible range for the forward speed for the current settings



Switch the display from day to night view or vice versa.





4.1 Work menu

Before beginning seeding

- Enter product data,
- Perform calibration.





4.1.1 Displays on the terminal







4.1.2 Deviations from the nominal state



Displays marked in yellow are indications for deviating from the nominal state.

- (1) Simulated speed active/information source not available
- (2) All conditions for Section Control have been met.
- (3) Coulter pressure when coulters are lifted
- (4) Seed hopper is empty



4.1.3 Driving on the road

At a forward speed greater than 20 km/h, the implement is set to road travel mode.

The metering unit cannot be started.

Road travel mode is deactivated when the implement is switched on at a standstill.





4.1.4 Mini-view in Section Control

Mini-view is a section of the work menu that is shown in the Section Control menu.

- (1) Multi-function display
- (2) Target quantity
- (3) Tramline control

Notes are also shown in the miniviews.





Mini-view cannot be displayed on all control terminals.



4.1.5 Switching the implement on and off



Switch on the implement before beginning seeding.

- → Seeding starts when driving off, if the implement is in working position.
- → Seeding can be interrupted while driving in working position.
- \rightarrow Seeding can be resumed while driving.
- Implement is switched off
- Implement is switched on
- Working position
- \rightarrow Ready for seeding
- \rightarrow Seeding at forward speed
- \rightarrow No seeding
- Implement is switched on
- Not in working position
- \rightarrow Headlands



When engaging the implement after the headland, the metering unit starts automatically.

Switching off the metering unit can be useful, since even small movements in front of the radar sensor can cause the metering unit to start running (e.g. when manoeuvring on the field in working position).





4.1.6 Pre-metering



Pre-metering enables punctual supply of seed at the beginning of the field. This prevents areas without seed at the beginning of the field.



Start the pre-metering when the field is reached after the pre-metering time has expired.

The time must be known.

See Implement / Metering unit menu





The implement must be switched on.

4.1.7 Pre-stopping



Pre-stopping enables punctual stopping of the seeding at the end of the field.



Start the pre-stopping when the end of the field is reached after the pre-stopping time has expired.

The time must be known.

See Implement / Metering unit menu





4.1.8 Section control



0011				
•	The terminal must be equipped with Section Control.			
•	Section Control switched on through the terminal (not necessary with AmaTron 4).			
•	Implement is error-free.			
	•			

- → Seeding starts when driving off, if the implement is in working position and is switched on.
 - <u>o</u>ill

1.

- Switch on Section Control.
- 2. Switch on the implement.
- → Seeding starts when driving off, if the implement is in working position and is switched on.

Section Control is switched on.

→ All of the conditions for Section Control are met.

Section Control is switched off.

- \rightarrow Section Control is signed onto the terminal.
- → The conditions for Section Control have not been met.

Section Control manually overridden:

 \rightarrow Seeding bar is red; seeding has been interrupted.





Field menu

4.1.9 Pre-selection for hydraulic functions





4.1.10 Changing the target quantity



Increase / reduce the target quantity

The target quantity can be changed as required during operation.

The changed target quantity is shown in the work menu:

- in kg/ha
- in percent (marked in yellow)



Each time the key is pressed, the seeding rate is increased by the rate increment (e.g.:+10%).



Reset the seeding rate to 100%.



•

Each time the key is pressed, the seeding rate is reduced by the quantity increment (e.g.:-10%).





4.1.11 Tramline control



(3) GPS track counter display

The track counter counts the passes over the field (only with GPS-based ISOBUS tramline)

- o Tramline information is being transmitted via ISOBUS.
- o Tramline information is not being transmitted.

ISOBUS BAG0145.19 01.24





Switching the interval tramline on / off

(1) Interval tramline is switched on.

Interval tramline must be selected in the implement menu.





4.1.12 Part-width section control (optional)



The two part-width sections of the implement can be switched on and off separately.



Switch right part-width section on / off

- The part-width section can be switched during seeding.
- The part-width section can be pre-selected at a standstill.



4.1.13 Work lights



Switching the work lights on / off



Display when work lights are switched on \rightarrow



4.1.14 Water hole function



Switching the water hole function on / off

The water hole function allows driving through wet areas with the implement lifted without interrupting seeding.

- 1.
- Activate the water hole function while driving before reaching the water hole.
- 2. Raise the implement before reaching the water hole.
- 3. Drive through the passage without interrupting the seeding.
- 4. Lower the implement again.
- \rightarrow Water hole function is deactivated.

4.1.15 GPS recording mode for recording a field boundary



When recording mode is switched on, a field boundary can be recorded without having the implement in working position (metering is interrupted, no advancing of the tramlines).



Switch on recording - Drive around the field boundary.

A message will be shown \rightarrow

- 2. Switch off recording When manoeuvring on the field.
- 3. After driving around the field, create the field boundary through the GPS menu.
- 4. Delete the worked area again (depending on the terminal), since the perimeter is marked as the worked area.







4.1.16 Procedure during operation

•	To maintain the set spread rate, the calibration factor must be deter- mined before starting work.

- 1. Move the implement into working position.
- 2. Centaya / Avant 02: switch on the fan.
- 3. In the field menu on the control terminal: Select operation.
- 4. Lower the desired track marker.
 - **(3**)
- 5. Switch on Section Control if necessary.



- 6. Switch on the implement.
- 7. Drive off and start seeding.
- 8. After approx. 30 m, come to a stop and check the seeding.
- In the headland position, the metering unit stops automatically.
- After the headland, the metering unit starts as soon as the working position is reached.
- When stopping, the metering unit stops automatically.



• If necessary, switch off the metering unit (e.g. when manoeuvring on the field in working position).



4.2 Calibration menu

The calibration checks whether the required seed quantity is spread during subsequent seeding.

Calibration must always be performed

- when the seed type is changed,
- if the seed type is identical, but the grain size, grain shape, specific weight and dressing are different,
- when changing the metering roller.



Refer to the seed drill operating manual to prepare the implement for calibration.

1. Select the hopper for calibrating the metering unit.



- 2. Enter the intended speed.
- 3. Enter the target quantity.
- Determine the metering volume. Select the size of the metering roller (pneumatic seed drill) or a single Precis metering row (Cataya) in cm³, or enter a user-defined metering volume on

the first line.

5. > continue.





Field menu

- 6. Mechanical seed drill: enter the number of active rows.
- 7. > continue.





- 8. Enter 1 as the calibration value or an empirical value.
- 9. Enter the calibration area (area for which an appropriate quantity is metered during the calibration procedure).
- 10. Select the calibration type
 - o ISOBUS terminal
 - o Calibration button
 - o TwinTerminal
- 11. > continue.



- 12. Move the calibration flap and collection bucket into the calibration position.
- \rightarrow Refer to the implement operating manual.
 - ሞ
- 14. Empty the calibration bucket again.
- 15. > continue.





Field menu

16.

On the control terminal: ✓ Start the calibration procedure.

- \rightarrow The calibration stops automatically.
- → The bar diagram shows the progress of the calibration.

Calibration button on the implement:

Press and hold the button until a sufficient quantity of seed has been spread.

→ By releasing the button, the calibration can be interrupted.

Risk of injury from the driven metering shaft.

Direct people out of the danger area.

- → The calibration procedure is stopped automatically when the pre-selected area has been reached, or it can be stopped early.
- 17. Weigh the collected quantity.
- \rightarrow Take account of the weight of the bucket.
- 18. Enter the value for the collected quantity in kg.
- 19. > continue.

- → The new calibration value and the percent deviation compared to the target quantity are shown.
- 20. \checkmark Save the calculated values.

X If there were errors during calibration (e.g., uneven flow), repeat the calibration.

Save the determined values and repeat the calibration procedure for further optimisation.

After calibration, put the calibration flap and collection bucket into working position.









4.3 Call menu

1. Select the hopper for filling.



- 2. If necessary, set the residual quantity to 0.
- \rightarrow The theoretical residual quantity will be displayed.
- 3. Enter the refilled quantity.
- \rightarrow The new fill level will be displayed.
- 4. Confirm the correct fill level.





4.4 Emptying menu

1. Select the hopper for emptying.



- 2. Stop the implement.
- 3. Secure the tractor and implement against unintentional rolling.
- 4. Open the calibration flap.
- 5. Put the calibration bucket into collection position.



Start residual emptying, keep the softkey pressed.

Or press and hold the calibration button, or via the TwinTerminal.

7. Close the calibration flap after emptying.

	(i)e		
	Emptying		
Calibration flap open? Container installed?		120.0 rpm	



4.5 Documentation menu

In the documentation menu, the current job is displayed.

Data in the job:

- Worked area (total / day)
 Working time (total / day)
- Spread quantity per hopper (total/per day),



500 Λ DOCUMENTATION < Name **→**0 1267 2.9 ha ha 420 1.3 h h 25883 347.7 kg kg 175 23.2 2 kg kg 18976 254.1 3 kg kg

Job list:

The active documentation is marked.

A maximum of 5 documentations can be created.

Select documentation.

< / > Scroll through the list

Editing documentations:

PΓ

- Change the name of the documentation
- Activate the documentation.
- Inactive documentations can be de-
- X Exit the editing menu

Ĺ	1				-
Ī	DOCUME	NTATIO	N		1 /1
Docu 1 5.00 0.6	ha h		Docu 2 8.9 3.3	ha h	
Docu 3 0 0	ha h		Docu 4 0 0	ha h	
<	:		+		>





5 TwinTerminal 3

5.1 Product description

The TwinTerminal 3 is located directly on the implement and is used

- for convenient calibration of the seed.
- for convenient residual emptying.

Alternating display:



4 softkeys:





The calibration type TwinTerminal must be selected in the calibration menu on the control terminal.



TwinTerminal 3

Display on the control terminal when TwinTerminal is active.

- X Cancel the work on the TwinTerminal.
- \rightarrow Control terminal active again.



Start screen with software version:





5.2 Calibrating the metering system

- 1. Check the following entries before calibrating.
 - o Hopper number
 - o Target quantity
 - o Size of the metering roller in ccm
 - o Current calibration value
 - Relative area for which the implement will be calibrated
 - o Intended forward speed



- 2. OK Confirm entries.
- 3. Pre-metering (keep key pressed)
- 4. Confirm that pre-metering is concluded.
- → After pre-metering, empty the collection hopper again.
- 5. Confirm that the flap under the metering unit is opened and that an empty collection bucket is placed underneath.







The calibration procedure can be interrupted and started again.

→ During the calibration procedure, the theoretic spread quantity will be displayed.

As soon as OK appears, the calibration test can be ended prematurely:



Terminate the calibration.




Display green: The calibration procedure is finished, the motor stops automatically.

- 7. Release key.
- 8. OK Go to the Entry menu for the calibration quantity.
- 9. Weigh the collected quantity.
- 10. Enter the value for the collected quantity.
- → To enter the collected quantity in kg, a decimal number with 2 places before and 3 places after the point is available.
- \rightarrow Each decimal place is entered separately.



i A The selected decimal place is indicated by an arrow.



- → The underscore indicates the possible numeric entry.
 - 10.3 **10.3** Enter the decimal value.
 - 10.4 **Confirm decimal value**.

10.5 Enter additional decimal values.

- 11. Exit entry menu (activate several times if necessary)
 - until the following display appears:

12.



Confirm value for collected quantity.

- \rightarrow The new calibration value will be shown.
- → Difference between the calibration quantity and the theoretical quantity is displayed in %.
- 13. Exit the calibration menu, Start menu will be displayed.

The calibration is finished.









·50.0%

TwinTerminal 3



Cancel calibration, discard the calibrated values.

5.3 Residual emptying

- 1. Stop the implement.
- 2. Switch off the fan.
- 3. Secure the tractor and implement against unintentional rolling.
- 4. Open the flap of the injector.
- 5. Fasten collection bag or trough under the hopper opening.
- 6. Divided hopper: select hopper 01, 02 or other for emptying.
- 7. Confirm selection.
- 8. Emptying (press and hold the button)







6 AUX-N multi-function sticks

AUX-N - Auxiliary Control
The implement computer supports the AUX-N standard. Therefore, the functions of the implement can be assigned to an AUX-N-compli- ant multi-function stick.
The AmaPilot+, WTK and Fendt multi-function sticks are pre-as- signed as a standard.



7 AmaPilot+ multi-function stick

The implement functions can be executed using the AmaPilot+.

AmaPilot+ is an AUX-N control element with freely selectable button assignment.

A default button assignment is pre-configured for every Amazone ISOBUS implement.

The functions are spread over 3 levels and can be selected by pressing with your thumb.

In addition to the standard level, two other control levels can be switched.

A sticker with the default assignment can be stuck in the cab. For a freely assigned key assignment, a new sticker can be applied over the default assignment.





- Standard level, Illuminated button is green.
- Level 2 when trigger on the back is held, Illuminated button is yellow.





 Level 3 after pressing the illuminated button, Illuminated button is red.



AmaPilot+ with fixed assignment / default assignment

Standard level, green				
Switching Section ControlIncrease / reduce the target quantityInter			val tramline	
				Tramline counter Advance / set back
Pre-metering				Tramlines pause
Metering unit start / stop				Target quantity 100%

	Level 2, yellow			
Water hole function		Hydraulic pre-selection		
		Lighting		
	The second se	Target quantity 100%		

Level 3, red			
Field boundary recording Boom part width sec- tions on the left on / off		Boom part width sections on the right on / off Target quantity 100%	



8 settings

- Implement menu Entry of implement-specific or individual data.
- Profile menu
 - Each user can save a personal profile with settings for the terminal and the implement.
- Product menu
 Entries for the seed
- Info menu Software version and total area output and diagnosis.

Selection of the pages in the sub-menus

Some sub-menus consist of several pages.

The pages are shown with point at the bottom edge of the screen.

Active page - white.



Scroll through the pages in the menu.



		(<u>)</u>
•	• •	• • •
Page 1	Page 2	Page 3



8.1 Implement

- Settings for creating tramlines, see page 44
- Entries for the metering unit, see page 46
- Fan, see page 49
- Entries for the working position sensor, see page 48
- Coulter pressure
- Working speed, see page 51
- Entering the implement geometry, see page 44
- Selecting and deselecting hoppers, see page 55
- Pair Bluetooth device
- Additional functions

		\$ <u>}</u>	
<	Implement		
	Tramline		
ſ₽₽	Metering unit		
©_≡	Fan		
₽≈	'Working posi	tion'	
e© +	coulter press	sure	
6€	Speed		
	Geometry	/	
\Box	Hopper selec	tion	
*	Bluetooth		
+	Additional functions		
•		•••	

Additional functions

- Select GPS recording mode on / off in the Work menu for recording a field boundary
 - o ⊠ja
 - o DNo (default)
- On / off selection for water hole function in the work menu
 - o ⊠ja
 - o D No (default)





8.1.1 Tramline

- Create tramline
 - o ⊠ja
 - o D No (default)
 - <u> </u>
 - Carlot Teach-in tramline rhythm
- Source for advancing the tramline counter
 - o Working position headland position
 - o Switching of the track marker
 - o ISOBUS (e.g. parallel driving system, terminal-dependent)
- Time for advancing
- The seed rate is automatically reduced when creating tramlines. Alternatively, the seed rate can be changed by the entered percentage value (-50% to 50%).
- \rightarrow not for **CATAYA**
- The theoretically required seed rate reduction is automatically calculated and set.
- Interval tramline
 - o ⊠ja
 - o □ No (default)

For interval tramline

- o Enter the length of the seeded distance
- o Enter the length of the non-seeded distance

	^ر ېچې
< Tramline	
tramline	
Teach-in tramline rhythm	ર્ે
Switch to next source	
Time for switching ahead	
Seed rate change	%
Interval tramline	



Teach-in tramline rhythm

• Enter the working width of the cultivating implement.





• Enter the track width of the cultivating implement.



✓ Confirm the entry.

 Enter the distance from the tyres to the plants.



 Enter the tyre width of the cultivating implement.

\rm Entry in **cm**.

Confirm the entry.



Wehn starting operation:

- Field boundary left or right.
 - o ⊠ja
 - o 🛛 no
- Start operation with complete or half working widths.
 - o ⊠ja
 - o 🛛 no

✓ Confirm the entry.





The rows to be switched off (beginning from the left) when creating tramlines are displayed.

✓ Adopt the calculated tramline rhythm.





If a tramline rhythm cannot be calculated:

- The tramline rhythm will be restored with the most recent specifications.
- Start with half the working width / the whole working width if applicable.

8.1.2 Metering unit

Enter the quantity increment in % (value for seeding rate change in percent during oper-

ation with

- Pre-stopping (not for Section Control)
- Pre-metering (not for Section Control)



Pre-stopping

The pre-stopping time can be entered to prevent the seed from still running at the end of the field.

The time can be entered separately for each metering unit.

- Activate pre-stopping
 - o ⊠ja
 - o DNo (default)
- Enter the time for pre-stopping



Pre-metering

The pre-metering time can be entered to ensure that seed is available right away at the beginning of the field.

The time can be entered separately for each metering unit.

• Enter the time for pre-metering





8.1.3 Working position sensor

- Source
 - o Implement sensor
 - o Lifting height ISOBUS in %
 - o Lifting height ISOBUS digital

Analogue sensor:

- Switch point metering off
- Switch point metering on
- Teach-in switch points
- Teaching-in limit values





Teach-in switch points

- 1. Move the lifting gear to desired height for the ON switch point.
- 2. ✓ Save value.
- 3. Move the lifting gear to desired height for the OFF switch point.
- 4. ✓ Save value.



The correct setting of the switch points is important for precise switching of the implement on the field.

The ON and OFF values should be as far apart as possible.





Teaching-in limit values

Before initial operation and when changing tractors, the limit values of the lifting gear must be taught in.

- 1. Lower the lifting gear / move the implement into working position.
- 2. > Save the value and continue.
- 3. Raise the lifting gear as far as it goes.
- 4. **✓** Save value.



8.1.4 Blower fan

Set the fan speed according to the implement operating manual.

- Enter the nominal speed
- Teach-in nominal speed
- Enter alarm limit in %





Teach-in nominal speed

- 1. Run up the blower fan to the desired speed.
- 2. ✓ Save value.





8.1.5 Coulter pressure

Working with increased or reduced coulter pressure is possible via the hydraulic pre-selection function.

The minimum and maximum coulter pressure can be set in a value range of 0-10.

- Minimum coulter pressure
- Maximum coulter pressure

The seed rate is increased above the switch point in the value range from 0-10.

- Switch point (value for coulter pressure) for the seed rate increase
- Enter seed rate increase with coulter pressure in %.





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Teach-in cylinder stroke range



The hydraulic function of the Centaya Special with TwinTeC Special coulter is mirror-inverted:

- The full coulter pressure is reached when retracting the cylinder.
- The coulters are lifted when the cylinder is extended.
- Pre-select the coulter pressure hydraulic function.
- 2. Activate tractor control unit green.
- → Hydraulic cylinder for maximum coulter pressure.
- 3. > continue.
- 4. Activate tractor control unit green.
- \rightarrow Hydraulic cylinder for full coulter lift.
- 5. \checkmark Save value or **X** cancel measurement.



8.1.6 Speed

-	The implement computer needs a speed signal for a correct rate con- trol.
-	There are different sources for the forward speed signal input.
	• The speed signal can be provided via the ISOBUS.
	• The speed signal can be calculated using the pulses per 100 m.
	• The speed signal is simulated by entering a speed (e.g., when a speed signal from the tractor fails).
	Entering a simulated speed allows you to continue operation even if the speed signal fails.

- Select the source of the speed signal.
 - o Radar (ISOBUS)
 - o Wheel (ISOBUS)
 - o Satellite (ISOBUS)
 - o J1939
 - o Sensor (implement)
 - o Simulated
 - Enter simulated speed
- → The entered speed must be maintained later in all cases.
 - \rightarrow If another source for the speed signal is detected, the simulated speed is automatically deactivated.
- Enter value for pulses per 100 m, or
- Teach-in pulses per 100 m



settings





Check the number of pulses by comparing the speed display of the tractor and the control terminal.



8.1.7 Geometry

- The data are pre-configured depending on the implement and must normally not be changed.
- The geometry data must correspond to the real length dimensions of the implement in the direction of travel.

Lateral offset - implement to the left: Enter negative value

Enter the geometry data.

• Select the seed drill position.



- Enter the value for the lateral offset.
- \rightarrow Default value: **0 cm**
- Read and enter the value **L** for the distance from the tractor connection device to the seeding rail from the following table.





8.1.7.1 Distance from the tractor connection device to the seeding rail

Coulter type	1 or 2	L			
	frame of the roller	Without additional equipment	With lower link ex- tension	With subsoiler	
			15 cm		
TwinTeC Spe-	1	182 cm	197 cm	225 cm	
cial coulter	2	188 cm	203 cm	231 cm	
RoTec coulter	1	198 cm	213 cm	241 cm	
	2	204 cm	219 cm	247 cm	
TwinTeC coulter	1	187 cm	202 cm	230 cm	
	2	193 cm	208 cm	236 cm	
RoTeC Pro coul-	1	196 cm	211 cm	239 cm	
ter Only Centaya	2	202 cm	217 cm	245 cm	

Setting of the correct geometries for: Cataya / Centaya / Avant 3002/4002 with KG / KX / KE 01

Setting of the correct geometries for: Cataya / Centaya / Avant 3002/4002 with KE 02

Coulter type	1 or 2	L			
	frame of the	Without addi- tional equipment	With lower link extension	With lower link extension	With subsoi- ler
	Toller	- q p	6.5 cm	13 cm	
TwinTeC Spe-	1	176 cm	183 cm	189 cm	219 cm
cial coulter	2	182 cm	189 cm	195 cm	225 cm
RoTeC coulter	1	192 cm	198 cm	205 cm	235 cm
	2	198 cm	204 cm	211 cm	241 cm
TwinTeC coul-	1	181 cm	187 cm	194 cm	224 cm
ter	2	187 cm	193 cm	200 cm	230 cm
RoTeC Pro	1	190 cm	197 cm	203 cm	233 cm
coulter Only Centaya	2	196 cm	203 cm	209 cm	239 cm



Setting of the correct geometries for: Cataya / Centaya with CDC - CombiDisc

Coulter type	1 or 2	L		
	frame of the roller	Without additional equipment	With lower link ex- tension	
			15 cm	
TwinTeC Spe- cial coulter	Standard	237 cm	252 cm	
RoTec coulter	Standard	253 cm	268 cm	
TwinTeC coulter	Standard	242 cm	257 cm	
RoTeC Pro coul- ter	Standard	251 cm	266 cm	
Only Centaya				

Setting of the correct geometries for: Avant 4002-2 / 5002-2 / 6002-2 with KG02 02

Coulter type	ter type 1 or 2 L		
	frame of the roller	Without additional equipment	With lower link ex- tension
			15 cm
RoTeC coulter	2	213 cm	236 cm
TwinTeC coulter	2	210 cm	233 cm

8.1.8 Hopper selection

- Hopper selection
 - o $\ensuremath{\boxdot}$ Hopper selected, metering unit active
 - o \Box Hopper is currently not being used

1	6343 (5343
	HOPPER SELECTION
Hopper 1	
Hopper 2	
Hopper 3	





8.1.9 Pairing the Bluetooth device

The implement can be connected to a mobile end device via Bluetooth.

To do so, enter the 6-digit code shown on the mobile end device.

The seed drill can exchange data with the mySeeder app via Bluetooth.





8.2 Profile



Managing profiles

As a standard, one profile is configured.

You can save 5 profiles with different settings.



Create new profile

A profile:

- can be activated
- can be given a name
- can be copied
- can be deleted

Follow the sequence below to set Mark the profile and confirm.



Active profile:

- Configure ISOBUS, see page 58.
- Configure the multi-function display, see page 59.
- Configure the free key assignment, see page 59.
- Configure the start-up ramp, see page 60





8.2.1 Configuring ISOBUS

• Select the terminal, see page 58.



Select terminal

ļ

If several control terminals are connected to the ISOBUS:

- Select the terminal for displaying the implement operation software
- Select the terminal for displaying the documentation and Section Control

The terminals are numbered in the sequence in which they were switched on (1, 2, ...)





8.2.2 Configuring the multi-function display

Multi-function display in the work menu



The 4 fields of the multi-function display can each be assigned with different displays.

List of the assignable displays:

- Speed
- Remaining area
- Remaining distance
- Area
- Target quantity
- Quantity
- Fan speed



8.2.3 Configuring the free key assignment



The assignment of functions from the work menu to the keys of the control terminal can be freely selected.

Here the function fields of the work menu can be freely assigned.

- 1. Select function on the display. Scroll first if necessary.
- 2. Assign the function to the freely selectable function field.



Select the page first if necessary.

- \rightarrow Function appears on the function field.
- 3. Confirm.





Functions can be assigned several times. The assignment of keys on the control terminal to functions from the work menu can be freely selected.

8.2.4 Configuring the start-up ramp

The start-up ramp prevents under metering when starting up.

When beginning work, the metering is applied according to the simulated start-up speed until the specified time expires. After that, the speed-dependent rate control is regulated.

Once the speed entered has been reached or exceeds the simulated speed, the quantity regulation starts.

- Start-up ramp on /off
 - o 🗹 on
 - o □ off
- Intended speed, working speed in km/h.
 - Default value: 12 km/h
- Ramp start speed as a %-value of the intended speed at which the metering starts.

Default value: 50%

• Time that passes until the simulated speed is actually reached in seconds.

Default value: 5 s









8.3 Information

- Display the softkey number in the menus (info for Customer Service).
 - o 🗹 (yes)
 - o 🛛 🖓 (no)
- Show the software versions on the implement computer
- Show the counter statuses
 - o Total time (seeding operation)
 - o Total worked area
 - Spread quantity for the individual hoppers
 - o Distance in transport position
 - o Distance in working position
- Show diagnosis data (info for Customer Service)





8.4 Product

If the implement has multiple hoppers, products can be configured for each hopper.





Managing products

As a standard, one product is configured.

You can save 20 products with different settings.



Create new product

A product:

- can be activated
- can be given a name
- can be copied
- can be deleted

Follow the sequence below to set Mark the product and confirm.





Active product:

- Enter the target quantity in the selected unit
- Determine the metering volume. Select the size of the metering roller (pneumatic seed drill) or an individual Precis metering row (mechanical seed drill) in cm³, or

enter a user-defined metering volume on the first line.

 Mechanical seed drill: enter the number of active rows.

Enter the calibration area in ha.

(Area for which an appropriate quantity is metered for the calibration procedure, 0.1 ha - 1.0 ha)

- Enter a calibration value of 1 or empirical value.
- Enter the switch-on time for Section Control, see page 64
- Enter the switch-off time for Section Control, see page 64
- Optimise the switch-on and switch-off time, see page 66
- Units for the spread rate.
 - o kg/ha
 - o grains /m²

The data entered will be adopted in the Calibration menu.

I ← ► Possible range for the forward speed for the selected product





settings

8.4.1 Selecting the metering volume

Pneumatic seeding technology:

- Select the volume of the metering roller, or enter the volume for a special metering roller manually on the first line.
- The selected metering roller must be installed on the implement.

4,!	5	
22	2	\checkmark
34	ł	
54	ł	
	×	~

Mechanical seeding technology:

- Select the volume of the individual seed metering wheel, or enter the volume of a special metering wheel manually on the first line.
- The selected metering wheels must be installed on the implement

8.4.2 Entering the switch-on time, switch-off time for Section Control

Section Control requires the switch times to take account of the travel time for the seed from the metering unit to the seeding coulter.

•	The switch time serves to seamlessly work the field
	o During the transition from non-worked to worked areas.
	→ The implement must be switched off before the spreading units have reached the worked area (switch-off time).
	o During the transition from worked to non-worked areas.
	\rightarrow The implement must be switched on before the spreading units have reached the unworked area (switch-on time)
•	The size of the overlapping/underlapping depends, amongst other things, on the forward speed.
•	The switch time is a time entry in milliseconds.
•	Long switch times and high speed may lead to undesired switch- ing behaviour.
	• • •



Optimal working of the field



- (1) Headlands/worked field
- (2) Seamless working of the field without overlapping

Overlapping of worked areas





Switch-off time too high	Switch-on time too low		
	+		
(B) Length of the unworked area			
\rightarrow Reduce the switch-off time.	\rightarrow Increase the switch-on time.		

settings





8.4.3 Optimising the switching times for Section Control

The entered/calculated switching times can be optimised.

To do so, the unseeded distance/overlap must be known.



- 2. > Continue
- 3. Select too early or too late switching of the implement.
- 4. > Continue



- 5. Enter the measured distance.
 - o Overlap: enter a positive value
 - o Unseeded distance: enter a negative value
- 6. Enter the driven speed.
- ✓ Save the determined value or X Discard calculation.





Fault 9

9.1 Alarm / warning and notification

Full-screen messages must always be acknowledged!

appears with the values 999.9.

This indicates that there is a fault. Further operation is not possible.

Messages in the Work menu (top) do not

need to be acknowledged.



9.2 Failure of the speed signal from ISOBUS

A simulated speed can be entered in the Implement Data menu as a source for the speed signal.

This allows the use of the implement without a speed signal.

See:

- 1. Enter simulated speed.
- 2. Maintain the simulated speed as you continue operation.





Fault

9.3 Fault table

Number	Туре	Cause	Remedy
F45001	Warning	Metering unit cannot turn slower	Drive faster, Calibrate again Adjust spread rate
F45002	Warning	Metering unit cannot turn faster	Drive slower Repeat calibration Adjust application rate
F45003	Warning	The regulation of the metering system is fluctuating too much	Repeat calibration Adjust spread rate and check
F45004	Warning	No communication possible with mo- tor 1 (left)	Check the connection of the metering motor to the wiring harness.
F45005	Warning	No communication possible with mo- tor 2 (right)	Check the connection of the metering motor to the wiring harness.
F45006	Warning	No valid signal found at the sensor in- put for the steps.	Sensor defective or cable break on the wiring harness
F45007	Warning	Mechanical defect on the rotary cultivator or defective sensor	Check the mechanics of the rotary cultivator or check the current value of the sensor
F45008	Warning	The tramline control cannot be actu- ated	Check the connection of the tramline control to the wiring harness.
F45009	Warning	Blockage in the tramline control	Check the tramline control and the metering system
F45032	Alarm	No valid signal found at the sensor in- put for the working position.	Check the position and current value of the sensor. Sensor defective or cable break on the wiring harness
F45033	Note	The blockage sensor on the coulter is reporting an error	Remove the blockage on the coulter, check the sensors and cabling if ap- plicable.
F45034	Note	Blower fan operates outside the toler- ance range set	Change tolerance range, check the sensor, check the hydraulic system
		Sensor connection cable defective	
F45035	Alarm	An internal error is detected on the mentioned sensor	Check the sensor and wiring harness
		Sensor connection cable defective	
F45036	Alarm	An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45037	Alarm	No valid signal found at the sensor in- put for the rotary cultivator.	Sensor defective or cable break on the wiring harness
F45038		Sensor connection cable defective	
	Alarm	An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45039	Alarm	No valid signal found at the sensor in- put for the track marker.	Sensor defective or cable break on the wiring harness
F45040	Alarm	No valid signal found at the sensor in- put for the coulter pressure.	Sensor defective or cable break on the wiring harness
F45041 – F45044	Alarm	Sensor connection cable defective	Check the sensor and wiring harness.



		An internal error is detected on the	
		mentioned sensor	
F45045	Note	The metering system is soiled or da- maged	Check the powertrain Follow the cleaning and maintenance instructions in the implement's opera- ting manual.
F45046	Note	The user wants to activate Section Control and one of the specified pre- requisites is not met.	All of the listed conditions must be ful- filled to be able to activate Section Control mode.
F45047	Note	Section Control has been deactivated on the terminal by the user	The user selects the other operating modes for the implement. If the deac- tivation was unintentional, the user must check for the cause on the ter- minal, e.g. poor GPS signal
F45048	Note	The implement is in working position and a speed is detected. The steps are folded down and therefore the metering units are disabled.	Fold up the steps.
F45049	Note	The residual quantity in the hopper set by the user has been reached	Refilling the hopper
F45050	Alarm	The input for the working position sensor is outside of the measuring range.	Check the working position sensor and wiring harness.
F45051	Warning	Centaya with segment distributor head: When one-sided switching is activated, the implement is in "seed- ing mode" and the one-sided switch- ing motor 1 is actuated for 3 seconds and the one-sided switching sensor 1 on the second one-sided switching motor is not attenuated.	Centaya with segment distributor head: check the wiring harness, one- sided motor 1 and the CAN-IO mod- ule for one-sided switching.
F45052	Warning	Centaya with segment distributor head: When the one-sided switching is activated, the implement is in "seeding mode" and the one-sided switching motor 2 is actuated for 3 seconds and the one-sided switching sensor 2 on the second one-sided switching motor is not attenuated.	Centaya with segment distributor head: check the wiring harness, one- sided motor 2 and the CAN-IO mod- ule for one-sided switching.
F45053	Warning	Centaya with segment distributor head: One-sided switching is acti- vated. Motor 1 of the one-sided swit- ching cannot be controlled.	Centaya with segment distributor head: check the wiring harness, one- sided motor 1 and the CAN-IO mod- ule for one-sided switching.
F45054	Warning	Centaya with segment distributor head: One-sided switching is acti- vated. Motor 2 of the one-sided swit- ching cannot be controlled.	Centaya with segment distributor head: check the wiring harness, one- sided motor 2 and the CAN-IO mod- ule for one-sided switching.
F45055	Warning	Centaya with segment distributor head: communication with the CAN- IO module is not possible.	Centaya with segment distributor head: check the wiring harness, one- sided motor 2 and the CAN-IO mod- ule for one-sided switching.
F45056	Note	Seeding operation not possible be- cause metering unit or fan is not switched on	Switch on the metering unit, switch on or check the fan



F45057	Warning	Speed below 200 rpm, defective sen- sor, cable break	Check speed, check sensor in the Di- agnostics menu, check the wiring har- ness
F45058	Note	The speed source from ISOBUS is currently no longer available.	The user must check the TECU (trac- tor control unit) settings for the trac- tor.
F45059	Note	The speed source from ISOBUS is currently no longer available.	The user must check the TECU (trac- tor control unit) settings for the trac- tor.
F45060	Note	The user has switched to simulated speed and the sensor (implement) has detected a speed	Rectify defect in the sensor (imple- ment) or continue work with simulated speed. The defective sensor (imple- ment) must be removed from the wir- ing harness.
F45063	Warning	The TwinTerminal was configured, but was not found on the bus.	Check the wiring harness and instal- lation site of the TwinTerminal.
F45064	Warning	The named metering unit/hopper electronics is not installed or defective	The named metering unit/hopper electronics is not installed or defec- tive, check cable connections, elec- tronics fuse and coding plug.
F45065	Note	The user cannot activate the GPS re- cording function, because the named conditions have not been met.	Put the implement into the named state to activate the function.
F45066	Warning	Error in the motor for the one-sided switching, the position sensor is providing faulty values - one-sided switching was deactivated	Check the motor and wiring harness of the one-sided switching, then re- start the implement
F45067	Warning	The one-sided switching under the FTender metering unit cannot reach the specified target position - one- sided switching has been deactivated	Check the mechanics of the one- sided switching for ease of move- ment, then restart the implement
F45068	Warning	The left one-sided switching in the segment distributor head cannot reach the specified target position - one-sided switching has been deac-tivated	Check the mechanics of the one- sided switching for ease of move- ment, then restart the implement
F45069	Warning	The right one-sided switching in the segment distributor head cannot reach the specified target position - one-sided switching has been deac-tivated	Check the mechanics of the OSS for ease of movement, then restart the implement
F45070	Warning	The absolute low level alarm in the metering unit is not detecting any seed.	Refill the implement or check the sen- sor.
F45071	Note	The implement has detected road travel, speed is >20 km/h and the im- plement is not in seeding mode	Activate the main part-width section switch to terminate road travel
F45073	Note	Failure of the GPS tramline function on the terminal	Check the GPS reception and func- tion of the GPS tramline on the termi- nal, observe the manufacturer operat- ing manual to do so
F45074	Note	The working position of the implement has exited the valid working range	Check the wiring harness and sensor for damage



F45075	Note	The implement detected an incorrect direction of travel, only possible when using GPS tramline	Check the direction of travel in the current track, check the settings in the TL Wizard check the GPS tramline settings on the terminal, use the manufacturer handbook to do so
F45076	Note	The maximum switch point was changed in the Comfort hydraulic sys- tem	Not necessary, check the changed value for the seed rate increase
F45077	Warning	No communication with the motor	Check the connection of the metering motor to the wiring harness.
F45078	Warning	No valid signal found at the sensor in- put of the calibration button	Check the current value of the cali- bration button. Calibration button defective or cable break on the wiring harness
F45079	Warning	Speed below 200 rpm, defective sen- sor, cable break	Check speed, check sensor in the Di- agnostics menu, check the wiring har- ness
F45080	Note	Blower fan operates outside the toler- ance range set	Change tolerance range, check the sensor, check the hydraulic system
F45081	Note	Metering unit cannot turn slower	Drive faster, Calibrate again Adjust spread rate
F45082	Note	Metering unit cannot turn faster	Drive slower Repeat calibration Adjust application rate
F45083	Warning	The absolute low level alarm in the metering unit is not detecting any seed	Refill the implement or check the sen- sor
F45084	Note	The residual quantity in the hopper set by the user has been reached	Refilling the hopper
F45085	Alarm	No valid signal at the sensor input for the working position	Check the position and current value of the sensor. Sensor defective or cable break on the wiring harness
F45086	Note	No valid signal at the sensor input for the working position	Check the position and current value of the sensor. Sensor defective or cable break on the wiring harness
F45087	Note	Rotary cultivator not switched on dur- ing seeding operation, incorrect installation of the sensor on the PTO shaft,	switch on the rotary cultivator, check the PTO shaft sensor,
F45088	Note	No valid signal found at the sensor in- put for the rotary cultivator monitoring 1	Check the position and current value of the sensor. Sensor defective or cable break on the wiring harness
F45089	Note	No valid signal found at the sensor in- put for the rotary cultivator monitoring 2	Check the position and current value of the sensor. Sensor defective or cable break on the wiring harness



F45090	Warning	Mechanical defect on the rotary cultivator or defective sensor	Check the mechanics of the rotary cultivator or check the current value of the sensor
F45091	Warning	Mechanical defect on the rotary cultivator or defective sensor	Check the mechanics of the rotary cultivator or check the current value of the sensor
F45092	Note	The terminal's TaskController sup- ports a lower target rate than that of- fered by the implement	Only assign specific target rates to the terminal, the target rates that are not assigned must be used as static target rates; Use of a terminal with more options for target rate control
F45093	Alarm	No valid signal found at the sensor in- put	Check the current value of the sen- sor. Sensor defective or cable break on the wiring harness
F45094	Alarm	No valid signal found at the sensor in- put	Check the current value of the sen- sor. Sensor defective or cable break on the wiring harness
F45095	Warning	No communication with the motor	Check the connection of the metering motor to the wiring harness.
F45096	Warning	No valid signal found at the sensor in- put	Calibration button defective or cable break on the wiring harness
F45097	Warning	Speed below 200 rpm, defective sen- sor, cable break	Check speed, check sensor in the Di- agnostics menu, check the wiring har- ness
F45098	Note	Blower fan operates outside the toler- ance range set	Change tolerance range, check the sensor, check the hydraulic system
F45099	Note	Metering unit cannot turn slower	Drive faster, Calibrate again Adjust spread rate
F45100	Note	Metering unit cannot turn faster	Drive slower Repeat calibration Adjust application rate
F45101	Warning	The absolute low level alarm in the metering unit is not detecting any seed	Refill the implement or check the sen- sor
F45102	Note	The residual quantity in the hopper set by the user has been reached	Refilling the hopper
F45103	Alarm	No valid signal at the sensor input for the working position	Check the position and the current value of the sensor. Sensor defective or cable break on the wiring harness
F45104	Note	No valid signal at the sensor input for the working position	Check the position and the current value of the sensor. Sensor defective or cable break on the wiring harness
F45105	Warning	Wrong software version on the named system	The components must be updated to a compatible software version


		-	
F45106	Warning	An equipment option is configured, but it is not found on the bus	Check the wiring harness and instal- lation site of the participant
F45107	Warning	An equipment option is configured, but it is not found on the bus	Check the wiring harness and instal- lation site of the participant
F45108	Warning	Error in the left motor of the one-sided switching, the position sensor is providing faulty values - one-sided switching was deactivated	Check the motor and wiring harness of the one-sided switching, then re- start the implement
F45109	Warning	Error in the right motor of the one- sided switching, the position sensor is providing faulty values - one-sided switching was deactivated	Check the motor and wiring harness of the one-sided switching, then re- start the implement
F45110	Warning	The part-width section control equip- ment option is configured, but it can- not be found on the bus	Check the wiring harness and instal- lation site of the participant
F45111	Warning	The left tramline control cannot be ac- tuated	Check the connection of the tramline control to the wiring harness
F45112	Warning	The right tramline control cannot be actuated	Check the connection of the tramline control to the wiring harness
F45113	Warning	Blockage in the left tramline control	Check the tramline control and the metering system
F45114	Warning	Blockage in the right tramline control	Check the tramline control and the metering system
F45115	Warning	No valid signal found at the calibra- tion button sensor input	Sensor defective or cable break on the wiring harness
F45117	Note	Metering unit cannot turn slower	Drive faster, or repeat the calibration using a metering roller with a smaller volume
F45118	Note	Metering unit cannot turn faster	Drive slower, or repeat the calibration using a metering roller with a greater volume
F45119	Warning	The absolute low level alarm in the metering unit is not detecting any seed	Refill the implement or check the sen- sor
F45120	Note	The residual quantity in the hopper set by the user has been reached	Refilling the hopper
F45121	Note	No valid signal at the sensor input for the working position	Check the position and current value of the sensor. Sensor defective or cable break on the wiring harness
F45122	Alarm	Sensor connection cable defective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45123	Warning	An overcurrent flows when the left tramline is switched.	Check the actuator of the left tramline and the corresponding cable connec- tion



F45124	Warning	An overcurrent flows when the right tramline is switched.	Check the actuator of the right tram- line and the corresponding cable con- nection
F45125	Note	Metering unit cannot turn faster	Drive slower, or repeat the calibration using a metering roller with a greater volume
F45126	Warning	No valid signal found at the sensor in- put for the (1st) hopper low level in the main hopper	Sensor defective or cable break on the wiring harness
F45127	Warning	No valid signal found at the sensor in- put for the (1st) hopper low level in the GreenDrill/micropellet spreader	Sensor defective or cable break on the wiring harness
F45128	Warning	No valid signal found at the sensor in- put for the (1st) hopper low level in the front hopper (1)	Sensor defective or cable break on the wiring harness
F45129	Warning	No valid signal found at the sensor in- put for the (1st) hopper low level in the front hopper 2	Sensor defective or cable break on the wiring harness
F45130	Warning	No valid signal found at the sensor in- put for the 2nd hopper low level in the main hopper	Sensor defective or cable break on the wiring harness
F45131	Warning	No valid signal found at the sensor in- put for the 2nd hopper low level in the GreenDrill/micropellet spreader	Sensor defective or cable break on the wiring harness
F45132	Warning	No valid signal found at the sensor in- put for the 2nd hopper low level in the front hopper (1)	Sensor defective or cable break on the wiring harness
F45133	Warning	No valid signal found at the sensor in- put for the 2nd hopper low level in the front hopper 2	Sensor defective or cable break on the wiring harness
F45134	Warning	No valid signal found at the sensor in- put for the metering unit low level in the main hopper	Sensor defective or cable break on the wiring harness
F45135	Warning	No valid signal found at the sensor in- put for the metering unit low level in the GreenDrill/micropellet spreader	Sensor defective or cable break on the wiring harness
F45136	Warning	No valid signal found at the sensor in- put for the metering unit low level in the front hopper (1)	Sensor defective or cable break on the wiring harness
F45137	Warning	No valid signal found at the sensor in- put for the metering unit low level in the front hopper 2	Sensor defective or cable break on the wiring harness
F45138	Warning	No valid signal found at the sensor in- put for the specified fan	Sensor defective or cable break on the wiring harness
F45139	Note	Metering unit cannot turn slower	Drive faster, or repeat the calibration using a metering roller with a smaller volume
F45140	Note	Metering unit cannot turn slower	Drive faster, or repeat the calibration using a metering roller with a smaller volume



F45141	Note	Sensor connection cable defective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45142	Note	No valid signal found at the sensor in- put for the track marker.	Sensor defective or cable break on the wiring harness
F45143 - F45147	Warning	Sensor connection cable defective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45147	Warning	Sensor connection cable defective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45148	Warning	The displayed output on the control unit was overloaded	Check the actuators and wiring har- ness.
F45149	Warning	The requested contact force cannot be applied: actual force is smaller than target force	Check if the implement is not being lifted. Activate the frame ballasting. Reduce the forward speed. Reduce the target force. Check the hydraulic power (fan speed).
F45150	Note	The requested contact force cannot be applied: actual force is smaller than target force	Unload the implement. Reduce the forward speed. Increase the target force.
F45151	Alarm	Defect in the plug connection or wiring harness Defective sensor	Check the sensor and wiring harness.
F45152	Warning	Defect in the plug connection or wiring harness Defective sensor Disrupted CAN BUS Defective control unit	Check the sensor and wiring harness. Check the fuse. Please consult a specialist workshop.
F45153	Note	One of the contact force sensors has failed. Regulation is possible with the remaining sensors.	Check sensors and wiring harness Please consult a specialist workshop.
F45154	Alarm	Connection cable in the sensor is de- fective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45155	Note	The implement has detected that not all of the control units were properly switched off since the last shutting down of the system.	 The ISOBUS load voltage from the tractor is not being switched off, check the tractor If necessary, retrofit the AMA- ZONE isolating relay (NI 1084)



F45156	Alarm	Connection cable in the sensor is de- fective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45157	Warning	Sensor for tool 4 was exchanged, or has failed	Teach-in the switch points for tool 4 again.
F45158	Alarm	Connection cable in the sensor is de- fective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45159	Warning	Incorrect configuration of the imple- ment	Please consult a specialist workshop.
F45160	Warning	Defect in the plug connection or wiring harness Defective sensor Disrupted CAN BUS Defective control unit	Check the sensor and wiring harness. Check the fuse. Please consult a specialist workshop.
F45161	Warning	Defective flap control detected on the distributor head	Check the flap control for damage and the wiring harness. Please consult a specialist workshop.
F45162	Note	Defective flap control detected on the distributor head	Check the flap control for damage and the wiring harness. Please consult a specialist workshop.
F45163	Warning	Mechanical defect on the flap control	Check and repair the connection between the flap control and distribu- tor head Please consult a specialist workshop.
F45164	Warning	Mechanical defect on multiple flap controls	Check and repair the connection between the flap control and distribu- tor head Please consult a specialist workshop.
F45165	Warning	Mechanical defect on multiple flap controls	Check and repair the connection between the flap control and distribu- tor head Please consult a specialist workshop.
F45166	Note	Mechanical defect on the flap control	Check and repair the connection between the flap control and distribu- tor head Please consult a specialist workshop.
F45167	Note	The current fan speed is too high	Reduce the fan speed
F45168 - F45175	Note	Connection cable in the sensor is de- fective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45176	Note	When lifting the implement, the sen- sor was not attenuated within the ex- pected time	Please check the tension sensor de- vice. Please consult a specialist workshop.
F45177	Note	Connection cable in the sensor is de- fective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.

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F45178 – F45192	Warning	Mechanical defect on multiple flap controls	Check and repair the connection between the flap control and distribu- tor head Please consult a specialist workshop.
F45193 – F45195	Note	Defective flap control detected on the distributor head Cable break on the wiring harness	Check the flap control for damage and the wiring harness. Please consult a specialist workshop.
F45196 – F45198	Warning	Defect in the plug connection or wiring harness Defective sensor Disrupted CAN BUS Defective control unit	Check the sensor and wiring harness. Check the fuse. Please consult a specialist workshop.
F45199	Note	Connection cable in the sensor is de- fective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45200	Note	The pressure sensor detected insuffi- cient pressure in the hopper Leak in the conveyor section or hop- per Soiled supply line An internal error is detected on the mentioned sensor	Check the conveyor section and hop- per for leaks. Check and clean the supply line. Check the function of the pressure sensor. Check the conveyor section and hop- per for leaks. Please consult a specialist workshop.
F45201	Note	Connection cable in the sensor is de- fective An internal error is detected on the mentioned sensor	Check the sensor and wiring harness.
F45202	Note	The pressure sensor detected insuffi- cient pressure in the hopper Leak in the conveyor section or hop- per Soiled supply line An internal error is detected on the mentioned sensor	Check the conveyor section and hop- per for leaks. Check and clean the supply line. Check the function of the pressure sensor. Check the conveyor section and hop- per for leaks. Please consult a specialist workshop.
F45203 - F45206	Warning	Mechanical defect on multiple flap controls	Check and repair the connection between the flap control and distribu- tor head Please consult a specialist workshop.





Postfach 51 D-49202 Hasbergen-Gaste Germany Tel.:+ 49 (0) 5405 501-0 e-mail:amazone@amazone.de http://www.amazone.de