Operator's manual

Translation of the original Operating Manual

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Chassis Nr.

Software **PÖTTINGER CONNECT**

Software App: 1.9

PÖTTINGER CONNECT

Operating instructions



Software App software version: 1.9 Last worked: 07.07.2022

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1. PÖTTINGER CONNECT application introduction

The software application is delivered together with the hardware.

As soon as the PÖTTINGER CONNECT hardware is connected to an ISOBUS system and supplied with power, the user interface of the PÖTTINGER CONNECT application is displayed on an existing ISOBUS terminal.

The PÖTTINGER CONNECT hardware has a GPS receiver with 1-2m accuracy. To use the automatic boom section control, the data from a GPS receiver must either be available on the ISOBUS or supplied via the existing serial interface.

The PÖTTINGER CONNECT hardware does not have a USB connection, the transmission of the data is exclusively via the internet

1.1. PÖTTINGER CONNECT functionalities

The PÖTTINGER CONNECT application includes the following functionalities:

| "Agrirouter" | PÖTTINGER CONNECT can be connected to the DKE "Agrirouter" to |
|-----------------------|--|
| connection | exchange data with farm software connected there. Transmission takes |
| | place as ISOXML task data and optionally also continuously (live |
| | telemetry function) |
| "Datalogger" function | As soon as the PÖTTINGER CONNECT hardware is connected to the |
| | ISOBUS and supplied with power, data from connected ISOBUS devices as |
| | well as available tractor and position data are logged, if possible. These |
| | are stored in ISOXML format and optionally also transmitted continuously |
| | in EFDI format; a GPS receiver must be available for this. |
| "Task Management" | The PÖTTINGER CONNECT application includes a complete ISOBUS-TC; |
| | ISOBUS tasks can be received externally or created directly; tasks can be |
| | selected from the task list, started, paused, stopped and used for data |
| | logging (TC-BAS) and, if necessary, for application control. |
| "Variable Rate | The PÖTTINGER CONNECT "Task Controller" can be used to control |
| Control" | application functions of ISOBUS machines that support TC-GEO |
| | functionality; ISOBUS task data with a suitable application map and a GPS |
| | receiver must be available for this. |
| "Section Control" | The PÖTTINGER CONNECT "Task Controller" can be used to control the |
| | section control function of ISOBUS machines that support TC-SC |
| | functionality; for this, a GPS receiver must be available and "Section |
| | Control" must be enabled on PÖTTINGER CONNECT. |

1.2. "AEF" and "Agrirouter" conformity

The PÖTTINGER CONNECT application has proven conformity for the following functionalities by certification:

- "DKE agrirouter": Exchange of ISOBUS "Task Data"
- "DKE agrirouter": Live telemetry function
- "AEF UT client, gen. 1.0": Display of the PÖTTINGER CONNECT application on ISOBUS terminals
- "AEF TC-BAS server, gen. 1.0": Task management and documentation as ISOBUS "Task Controller"
- "AEF TC-GEO server, gen. 1.0": TC-VR function for application control of ISOBUS devices with TC-GEO client
- "AEF TC-SC server, gen. 1.0": TC-SC Function for part width section control of ISOBUS devices with TC-SC CLIENT.

2. Start screen, status bar, navigation, basic configuration

If PÖTTINGER CONNECT is connected to the ISOBUS for the first time after delivery, the following start screen appears after the automatic upload of the user interface on the ISOBUS terminal. The colouring of some elements may vary depending on the features that have been unlocked. The resolution as well as the arrangement of the mask and SOFTKEYS may differ depending on the ISOBUS terminal.



As long as the TC functionality is not activated by the user, the "DataLogger" functionality is automatically active and this start screen is displayed again after each restart.

2.1. Status bar



The status bar is displayed on every operating screen except the alarm screen and contains status information on data synchronisation, error memory, internet connection, mobile phone signal and cloud connection.

| ¢ | If new task files have been downloaded from the CLOUD (happens automatically with "Agrirouter" connection), then the number of new task files is displayed. |
|------------------------------|--|
| \land | If new error messages have accumulated in the error memory, their number is displayed. |
| \bigoplus | The symbol is displayed as soon as an Internet connection to the provider is established. |
| atl. | The rising bars indicate the current quality of the available mobile radio signal. |
| $\langle \mathbf{x} \rangle$ | The icon is displayed as soon as a connection to the cloud application (e.g.: "Agrirouter") exists. During a data upload to the CLOUD, the symbol flashes and an upload arrow is also displayed. |

2.2. Switching between "Datalogger" and "Task Controller" mode

On the start screen, it is possible to switch between "Datalogger" and TC mode. To do this, use the large buttons in the upper mask area. After restarting, the last used mode is restored.

| Datalogger | ⊘ Datalogger | Button to activate the "Datalogger" mode. Grey: inactive, blue with green tick: active |
|----------------------------------|---------------------------------------|---|
| Inactive | Active | |
| Task Controller VR SC X | ⊘ Task Controller VR SC ✓ | Button to activate the TC mode. Grey: inactive, blue with green tick: active. Additional status display for features. "VR=Variable Rate Control (TC-GEO)" "SC=Section Control (TC-SC)" Dark grey with cross: not unlocked, Green with tick: unlocked. |

2.3. Display elements of the start screen

Below the selection of operating modes, the start screen is divided into four quadrants to indicate the status of important connections and functions



| TC / Datalogger | All "Dataloggers" and "Task Controllers" found on the ISOBUS are displayed; this serves as a hint for the user to deactivate TC/DL instances on other devices if necessary. |
|-----------------|---|
| Implement 👸 | All devices connected to the PÖTTINGER CONNECT are displayed. The configuration button is used to access the mask area for configuring the machine geometry. See chapter 4.1 |
| GPS 👸 | Current position, speed and GPS quality status are displayed. The configuration button takes you to the screen for selecting the GPS source and configuring the GPS antenna position. See chapter 0 |
| Connection 🔅 | If available, the current cloud connection is displayed. The configuration button is used to access the mask for onboarding to the cloud platform. In addition, the live telemetry function is switched on and off via this configuration button. See chapter 2.6 |

2.4. Navigation between and in operating screens

The SOFTKEY masks for all operating masks contain all or some of the following general SOFTKEYS for navigation.

| Home | Always takes you directly back to the start screen. |
|------------|---|
| back | Always navigates back one level. Is only present if there is at least one more mask level between the start screen and the current level. Instead of the term "back", the terms "implement list" or "boom list" or "tasks" or "products" can also be included. |
| Work | Always navigates forward one level. Is only present if there is at least one more mask level after the current level. Instead of the term "forward", the terms "work" or "products" or "tasks" can also be included. |
| Up Covn | In SOFTKEY masks of masks that contain several items or lists of the same type, so that the content does not fit on the display area of the mask, these two SOFTKEYS are displayed to scroll through the mask contents. As long as scrolling in a certain direction is not possible because the end of the list has been reached, the background of the SOFTKEY mask is grey and no operation is possible. On the right edge of the mask, a scroll bar is displayed in parallel to show where you are in a list of elements. |
| Tasks | Navigates to the list of available job files. |
| Warnings | Navigates to the display mask of the error memory |
| j Info | Navigates to the display mask for version information and quick reference guide. |

2.5. GPS configuration

The GPS configuration screen is used to select the GPS source and set the antenna distance from the tractor reference point. The GPS signal can be read from the ISOBUS or fed in via the serial interface of the PÖTTINGER CONNECT hardware.

Several GPS transmitters can be present on the ISOBUS. Therefore, a GPS transmitter can be selected via the manufacturer name in the list box.

| POETTINGER CONNECT $\bigcirc \bigtriangleup $ | | | | | |
|---|---------------------------------|-------------|----------|--|--|
| GPS: | | | Home | | |
| GPS source: | V ISOBUS | SERIAL | Warnings | | |
| GPS sender: | Poettinger | Landtechnik | | | |
| Lat: Long: Velocity: Quality: | 52.3608703 8.2980070 19.9 | | | | |

The GPS position, speed and quality are displayed in the middle area of the mask. This way, it can be checked whether the selected source provides the desired data. PÖTTINGER CONNECT automatically recognises the transmission speed ("Baudrate") set on the GPS receiver for the data; nevertheless, it may be necessary to make settings on the external GPS receiver regarding the data to be transmitted.

| ISOBUS | ⊘ ISOBUS | Button for selecting the ISOBUS as GPS source; grey: not selected, blue with green tick: selected. |
|--------|-------------|--|
| SERIAL | SERIAL | Button for selecting the serial interface as GPS source; grey: not selected, blue with green tick: selected. |

| GPS sender: Poettinger Landtechnik | Pressing the field opens a list from which the desired GPS transmitter can be selected. |
|------------------------------------|---|
| | |

2.6. Setting up the CLOUD connection ("Agrirouter")



When using the PÖTTINGER CONNECT with the "Agrirouter" for the first time, onboarding must be carried out, which is done by entering the TAN generated in the "Agrirouter" portal. Enter the generated TAN in the command line and confirm. After approx. 30 seconds, the positive completion of the onboarding is indicated by a registration code and a green tick. In the event of an error, no registration code is displayed.

2.7. Activating the live telemetry function ("Agrirouter")

The "EFDI" button (see screenshot under 2.6) activates the continuous process data transmission to the CLOUD. The transmission is in the EFDI format standardised by the AEF and is compatible with the "Agrirouter" live telemetry function.

When EFDI is switched on, the machine description is transmitted once from the process data sources "Task Controller" and "Datalogger" (see chapter 4) and then the process data is transmitted regularly to the "Agrirouter".

When an attachment connects to the PÖTTINGER CONNECT "Datalogger" function or the "Task Controller", the machine description is transmitted directly. In "Sniffing" mode, if the device is already connected to another "Task Controller", the machine description is then transmitted as soon as the first process data from a device is available. The prerequisite is that a machine description already exists, as described in 4.1.

EFDI data packages are generated every second, ensuring seamless GPS tracking. Process data is only added to the EFDI packages when it changes. Transmission to the "Agrirouter" takes place every 30 seconds (flashing of the CLOUD symbol).

If the Internet connection is interrupted, the EFDI packages are buffered internally in a database and sent in the original task when the connection is restored. When caching a message, a new warning is generated: "live log data transfer postponed", error code 9.

If the message is permanently not accepted by the "Agrirouter", the warning "live log data transfer failed" error code 10. appears and the message is not cached. Reconnecting the attachment can be helpful in these cases. However, the complete log data can still be transferred to the "Agrirouter" as ISOXML via "Data upload" (in "Datalogger" mode) or "Sync".

2.8. Info mask

The info mask contains the software version as well as a quick guide for the most important PÖTTINGER CONNECT functions.





3. Error management

All errors that occur are stored in an error memory. Errors that occur can be displayed as a warning or additionally as an ISOBUS alarm. If a new warning occurs, the user is informed by counting up the number of warnings in the status bar. The counter is reset when the error memory mask is called up. If an ISOBUS alarm occurs, it is always immediately displayed in the UT display area of the ISOBUS terminal in the foreground and must be acknowledged by the user.

3.1. Error list

| Code | Error type | Error text | Explanation |
|------|---------------|---|--|
| | Alarm | "Other TC detected!" | At least one other "Task Controller" (TC) is active on the ISOBUS in addition to PÖTTINGER CONNECT. For trouble-free operation, either the other TC or the TC function of PÖTTINGER CONNECT must be deactivated. |
| | Alarm | "Missing Device Description!" | Missing machine description in "Datalogger" mode |
| 0 | Warning | ng "Upload failed: When trying to synchronise data, the selected tash TASKDATA.ZIP" files could not be uploaded to the CLOUD or could be uploaded completely. | |
| 0 | Warning | "Upload/export failed (datalogger)" | The "Datalogger" log could not be uploaded to the CLOUD. |
| 1 | Warning | "Start failed, GPS not configured" | If the set GPS source is serial, but the Automatic Detection of Transmission Speed failed. |
| 9 | Warning | "live log data transfer postponed" | Live telemetry data cannot currently be transmitted to the CLOUD (e.g. due to a connection interruption) |
| 10 | Warning | "live log data transfer failed" | The message with live telemetry data was rejected by the receiver (CLOUD). |

3.2. Error display mask



In the mask, all error entries are listed in reverse chronological order. The error entries can be deleted by the user; the entire error memory is always cleared in the process.

| 10, 2022-03-02 10:09:19 live log data transfer postponed | Single error memory entry consisting of error code, date and time of occurrence and error description text |
|---|---|
| Clear | SOFTKEY to delete the error memory entries |

3.3. ISOBUS alarms

The message "Other TC detected" is defined as an ISOBUS alarm. After the occurrence, the user must acknowledge the message on the ISOBUS terminal. Depending on the application, he can decide to deactivate either the "Task Controller" on PÖTTINGER CONNECT or the other "Task Controller" (usually on the ISOBUS terminal).



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Another ISOBUS alarm "Missing Device Description" is displayed in "Datalogger" mode if TC communication is detected with at least one implement that cannot be assigned to a known, stored device description. There is a user assistant that guides you through this situation and is described in chapter 4.1.





4. "Datalogger" function

The "Datalogger" function of PÖTTINGER CONNECT is always active as long as the "Task Controller" is not activated. As soon as the PÖTTINGER CONNECT hardware is connected to the ISOBUS and supplied with power, data from connected ISOBUS devices as well as available tractor and position data are logged, if possible. The operation of another existing "Task Controller" is not affected by the "Datalogger" function.



Whether logging is done by an ISOBUS device depends on whether the device supports one of the two ISOBUS functions "Task Controller" or "Datenlogger". Which data is logged by ISOBUS devices is determined by the ISOBUS device itself. In most cases, these are process data ("DDIs") that are important for the respective device, such as current application rates and counters for time and area. The process data ("PGNs") listed in the following table are logged by the tractor, if the tractor provides them.

| J 1939 PGN | Bits | Explanation | |
|------------|-------|---------------------------------|--|
| 61444 | 24-39 | Engine Speed | |
| 65089 | 18-23 | Center/Right/Left Stop Light | |
| 65091 | 0-15 | Rear PTO output shaft speed | |
| 65091 | 38-39 | Rear PTO engagement | |
| 65093 | 0-7 | Rear hitch position | |
| 65093 | 14-15 | Rear hitch in-work indication | |
| 65093 | 24-39 | Rear draft | |
| 65096 | 0-15 | Wheel-based machine speed | |
| 65097 | 0-15 | Ground-based machine speed | |
| 65253 | 0-31 | Engine Total hours of Operation | |
| 65257 | 0-15 | Engine Trip Fuel | |
| 65262 | 0-7 | Engine Coolant Temperature | |
| 65262 | 8-15 | Engine Fuel Temperature | |
| 65263 | 24-31 | Engine Oil Pressure | |

| 65266 | 0-15 | Engine Fuel Rate |
|-------|-------|---|
| 65269 | 24-39 | Ambient Air Temperature |
| 65270 | 32-39 | Engine Air Filter 1 Differential Pressure |
| 65271 | 48-63 | Battery Potential (Voltage), Switched |
| 65272 | 24-31 | Transmission Oil Pressure |
| 65272 | 32-47 | Transmission Oil Temperature |

At least the GPS position is always logged as soon as GPS data is available at the selected GPS source.

The logged data is saved in ISOXML format in a TASKDATA.ZIP file. This file is not visible in the task overview screen. The data is automatically transferred to the CLOUD after a system restart if the system has been switched off for more than one hour. However, data synchronisation can also be started via the user interface.

After successful data transmission, the data is deleted by PÖTTINGER CONNECT. In addition, if the EFDI function (see 2.7) is activated, the data is continuously transmitted to the CLOUD if available on the BUS.

| Ê | SOFTKEY to manually start the data transfer of the "Datalogger" log to the connected CLOUD. |
|----------------|---|
| Data Upload | |

4.1. Sniffing function and Device Description Wizard

The "Datalogger" function additionally monitors all data from existing "Task Controller" communication in order to integrate process data from implements already connected to another "Task Controller" into the data log. If additional "Task Controller" communication is detected while the "Datalogger" function is running, a check is made to see whether a suitable device description ("Device Description Object Pool" = DDOP) is already stored in the internal database for correct assignment for this data. If this is not the case, a user assistant ("Wizard") is automatically started to guide the user through the process of requesting the missing implement descriptions from these unknown attachments. The wizard starts with the following alarm mask.



If the user presses the "Abort" SOFTKEY here, the unknown "Task Controller" communication is ignored until the next system start and the associated data is discarded.

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However, if the data of the previously unknown units is to be integrated into the data log, please proceed as follows:

- Press Start. Then the alarm mask "other TC detected" appears again, because PÖTTINGER CONNECT now also appears as TC on the ISOBUS. Please acknowledge this alarm. The "Waiting for machine descriptions" mask then appears. PÖTTINGER CONNECT now waits for connections to TC CLIENTS to receive the DDOPs.
- 2. Deactivate your TC on the terminal. Depending on the manufacturer, it may be necessary to restart the terminal. If this triggers a restart of PÖTTINGER CONNECT, the last state is continued (PÖTTINGER CONNECT works as TC, "Waiting for machine descriptions" mask is displayed). As an alternative to deactivating the TC on the terminal, it is possible to change the TC instance number in the TC. If the attachment only connects to TCs of a certain number and this number is configurable on the attachment, it is possible to temporarily establish the desired connection between PÖTTINGER CONNECT TC and attachment by matching this number on the attachment and in the PÖTTINGER CONNECT (see mask below).
- 3. As soon as at least one DDOP could be loaded, the devices found are shown on the display and the user is asked whether to continue or wait for further device descriptions.
- 4. As soon as the Finish SOFTKEY is pressed, this screen disappears, the internal "Task Controller" is deactivated again and the normal data logging and "Sniffing" mode is resumed. The user can now activate the other "Task Controller" again and continue working as usual.





5. Task Management

Regardless of whether PÖTTINGER CONNECT is to be used in "Task Controller" mode or in "Datalogger" mode, the task overview mask is available as a central element.

| "Task" | An ISOBUS task contained in a task set ("TaskDataSet"). |
|----------------------|--|
| "TaskDataSet" | An ISOBUS task set that can contain one or more tasks and is described in a TASKDATA.XML file (ISOBUS task file). |
| | |
| "TASKDATA" directory | Can contain other files in addition to the TASKDATA.XML file that provide necessary data for the tasks (e.g. application cards or task documentation). A TC can only ever work with one "TaskDataSet" in a TASKDATA directory. |
| "TASKDATA.ZIP" | The TASKDATA directory is saved as a ZIP archive on the PÖTTINGER CONNECT. With the "Agrirouter" transfer, the name of the ZIP archive is determined by the FMIS ("Farm Management Information System") (possibly selectable by the user) so that the task set can be better identified. |

In the following, the following terms are used uniformly:



This task overview screen is reached from the start screen and from various other screens via the "Tasklist" SOFTKEY (see Chap. 2.4 Navigation between and in operating screens).

5.1. Mask elements

All tasks (="Tasks") available in the PÖTTINGER CONNECT memory appear on the screen as buttons to select and deselect them. It is possible to select none, one or more tasks. Only one task may be selected to use certain functions.

Each task belongs to a "TaskDataSet". A "TaskDataSet" can contain several ISOBUS tasks. Only one task can be active in the "Task Controller" at a time.

A selection list with the available task sets is displayed above the task list.

If a set is selected, then:

- only the tasks of this set are displayed (filter function).
- a button for renaming the task set appears on the left
- a button for copying the task set appears on the right.

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The suffix "-copy" is added to the name of copied task sets. Likewise, the copied tasks receive the name suffix "-copy". A copied task set contains no log data and no "Task-Totals" (e.g. quantity counter). A copied task set can thus be used to work an area again in the next season.

It is possible to select one or more tasks. For example, only one task may be selected to start the task, but several tasks can be selected to synchronise the task.

After a successful synchronise to the CLOUD, the task file is deleted from the PÖTTINGER CONNECT when all tasks in this "TaskDataSet" have completed status.

Running tasks are presented in light blue, paused tasks are presented with a white background. Orders are added to the current task set or saved in a newly created task set if, for example, the last active task set was deleted.

| (I) Field 2 Farm 1 Farm 1 | As long as a task is not started in the PÖTTINGER CONNECT "Task Controller", the button background is grey. The status circle at the top left of the button can accept the statuses paused and stopped. The button shows the name of the task (here e.g. "Field 2") and the name of the associated "TaskDataSet" (here "Farm 1"). |
|------------------------------------|--|
| Field 3 | If a task is selected by pressing the button, a green tick appears in the top right-hand corner of the button. It is possible to select several buttons in the task overview screen. |

| <pre> Field 1 </pre> | If a task is currently started in the "Task Controller" of the PÖTTINGER CONNECT (only in "Task Controller" mode), the background of the button is blue. | | |
|----------------------|---|--|--|
| Farm 1 | | | |

5.2. SOFTKEYS

Only the SOFTKEY functions relevant to task management are described. The navigation elements are described in chap. 2.4.

| Start Start | Start a task selected in the task overview. The function is only available in "Task Controller" mode when exactly one task is selected in the overview. As soon as a task can be started, the blue button is displayed. If a task is already running and a new task is started, the previous task is set to paused. |
|--------------------------|--|
| Image: Pause Pause | If a task is running (blue button is displayed), it can be paused via this button. |
| Finish | Completing a task that has been started. The function is only available in "Task Controller" mode. As soon as all tasks belonging to the same "TaskDataSet" are marked as completed and a cloud connection is established, the task data is automatically transferred to the CLOUD and deleted from the PÖTTINGER CONNECT. |
| Create Task | It creates a new empty task and thus also a new task file ("TaskDataSet"). The task appears as a new button in the task overview screen. This can then be started and used for data logging in "Task Controller" mode. If a task set is selected as a filter, the newly created task is added to this existing task set |
| Delete Task | If exactly one task is selected, this SOFTKEY becomes active. If no task set filter is active, a user query appears when the soft key is pressed asking whether all tasks in the affected "TaskDataSet" should be deleted. When a task set is selected as a filter, the single task is removed from the task set, but the set remains as long as there are other tasks in the set. A corresponding user query appears. |
| Edit Task | Edit a task. If exactly one task is selected, this SOFTKEY becomes active and the selected task can be renamed. |

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| Sync Sync | All selected tasks and their associated "TaskDataSets" are transferred to the connected CLOUD when the connection is established. |
|-----------|---|
|-----------|---|

6. Use of the PÖTTINGER CONNECT browser app

6.1. Setup

A QR code containing the browser URL is displayed in the Connections operating mask (start screen): http://192.168.5.1/NGWeb/index.html.

To do this, connect your tablet or smartphone to PÖTTINGER CONNECT and use it as a hotspot (ESSID: ISO<Serial number>).

Ensure that the "Browser APP" has also been switched on in the operating mask. If this is not activated, a restart must be carried out after pressing the button!

Browser App for Tablet: Browser App

WLAN password: 123456789



http://192.168.5.1/NGWeb/index.html

To use the browser app, TC mode (see start screen, chapter 2) must be active.

6.2. Status line

In the status line there are the following operating and display elements

- for task selection, "Task-Start/Stop" and product assignment ("Variable Rate Control")
- to reset the worked area in the currently running task (Display: Area worked / area of the entire field)
- to delete the field boundary of the task currently running
- GPS signal strength and quality display
- General settings and attachment device-specific settings
- Info page (versions, available licences).



6.2.1. Task management

At the beginning, a task must be selected and started in the task mask. This activates a task set. The task selection in the browser is limited to the currently active task set selected in the UT. If another task set is to be used, a task from the new task set must be selected and started in the UT task mask.

Tasks can be started and stopped both in the UT mask and in the browser.

Clicking on "+" in the task list adds a new task to the currently active task set.

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If a task containing an application card is clicked on and a suitable attachment is active, the assignment of the products to the functions in the attachment can be carried out here. The product assignment can be done both before the start of the task and while the task is running. A previous assignment is automatically set again when the task is started again.

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6.2.2. Worked surface

The second operating element of the status bar shows the worked area and the overall area (if field boundaries exist). Click to reset the worked area. This also deletes the blue marked, striped area. With active part-width section control (TC-SC), the sections are opened again when these areas are passed over and application takes place. If several attachments with several functions are active, the worked area of all functions is deleted.

6.2.3. Field boundaries

In the third operating element of the status bar, the field boundaries can be deleted. If no field boundaries are available and an area has already been worked, then field boundaries can also be recalculated via this button. The field boundaries are based on the outer boundaries of the area being worked. To do this, it is sufficient to drive along the outer field boundaries when the machine is in active working condition. Then the field boundaries can be calculated.

6.2.4. GPS

This field displays the quality of the GPS signal. In the card at the bottom left, the compass symbol shows the compass direction of the current driving direction. Below this, the speed is displayed. When driving backwards, the arrow goes down.

6.2.5. Settings

In the general part, the desired language and the position of the GPS receiver can be set. For the GPS receiver, you can choose between "Position auf Traktor" (Position on tractor) and "Position auf aktuellem Anbaugerät" (Position on current attachment).

With "Position auf Traktor" (Position on tractor):

- NRP X is the distance between rear axle and GPS receiver position (positive value if GPS receiver is in front of the rear axle in the direction of travel)
- NRP Y is the distance between the centre of the tractor and the lateral offset of the GPS receiver (positive value if GPS receiver is to the right of the centre of the tractor in the direction of travel).
- CRP X is the distance between rear axle and coupling point (for rear coupling this value is negative because it is against the direction of travel).

| Settings | 3 | × |
|---------------------|----|---|
| User Interface | | - |
| Language | | |
| English | ÷ | |
| GNSS | | |
| Receiver Position | | |
| Tractor | ÷ | |
| NRP X | | |
| 0 | mm | |
| NRP Y | | |
| 0 | mm | |
| | | |
| Tractor | | |
| CRP X | | Г |
| -1000 | mm | |
| Poettinger Schwader | | |
| Model | | |
| Trailed | ÷ | |
| Boom Schurdor | | |

With "Position auf Anbaugerät" (Position on attachment), the reference point is the reference point of the attachment (e.g. centre of its axis). If this position is selected, the model type "angebaut" (attached) must also be selected.

An example in the swather (TOP1403) application:



In the section below, settings can be made for the currently active attachments.

| Poettinger Schwader | | | |
|-----------------------------------|---|------|----|
| Model | | | |
| Trailed | | | ÷ |
| Boom Schwader | | | |
| SC Switch On delay | | | |
| 0 | + | 2000 | ms |
| SC Switch Off delay | | | |
| 0 | + | 300 | ms |
| Overlap | | | |
| 100% | | | ÷ |
| Overlap tolerance | | | |
| 0 | | | mm |
| Overlap tolerance at boundary | | | |
| 0 | | | mm |
| Switch off at standstill | | | |
| Switch off in reverse | | | |
| Avoid overdosing in inside curves | | | |

6.2.6. Info screen

The information screen gives an overview of the software version, the active licences and the software libraries used.

6.3. Map display



In the map display, the existing application maps of the currently running task are displayed. At the top left of the legend, the assignment of the colours to the values is shown. By clicking on the product name, the next application map for this task is displayed. After the last map, there is the option to hide all maps.



At the top centre, the view can be selected between the complete field view and the view with the current direction of travel fixed upwards.



The view can be enlarged or reduced using the mouse wheel or the usual finger gestures.

At the top right, the headland function can be activated if field boundaries are present. If there is no headland yet, a new headland can be created via the "+" button below. There is a choice of circumferential or individual headland.

| Choose Headland Type | | | | |
|----------------------|--|--|--|--|
| Circulating Headland | | | | |
| Individual Headland | | | | |
| Close | | | | |

In the first case, a headland width can be given in metres. In the case of individual headlands, the headland can be set as required at the edges of the field by ticking the box and entering the width there.



By clicking on "Vorgewende" (Headland), the headland can then be switched on and off.

| Seeding / Fertilize | er - EU 🚺 0.15 ha / | 14.32ha | 14.47 ha | \$ 0 |
|----------------------|----------------------------|--------------------|----------|-----------------|
| Wheat lb/acre | | (| 3 | Headland OFF |
| >38458 >39402 >4034 | 6 | | | |
| >441231 >42233 >4317 | 2 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | 4 | | |
| | | | | |
| | | | | |
| | | | | |
| | Seeding/Fertilizer Comb | pination / Seedin | g | A |
| 🔺 0.0 km/h | Seeding/Fertilizer Combina | ation / Fertilizer | | C a a |

If a headland is active, the sections are closed correspondingly earlier.

If you drive outside the field, a corresponding icon is displayed under the headland button.



When the field is left, a dialogue also asks whether the currently running task should be stopped.

This function can be switched off in the dialogue window. The dialogue window can also be opened via the icon.



If a new field is entered, a dialogue is displayed suggesting a change to a corresponding task with suitable field boundaries, provided that such a task exists in the current task set.

In the lower area of the map, the connected attachments are displayed with names, functions and the current working status of the sections (black: Section closed, green: Section open) is displayed. To the right is the button for changing between "Section control state" AUTO ("A") and MANUAL (hand symbol). These buttons are available for each function individually or, to the right, a button for switching these states in all functions. When the hand symbol is displayed, MANUAL is active, when "A" is displayed, automatic is active. Click to change to the other state.

If several functions are listed, the worked area is represented by one function (name is highlighted in bold). The function names can be clicked on to display the worked area of the respective function.





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