



AMAZONE

AMATRON 3



AMATRON 3 – One for All

Easy to operate – Modern and future-oriented



AMATRON 3

The machine-overlapping operator terminal for fertiliser spreaders, crop protection sprayers and seed drills that allows optimum machine operation and monitoring.



Modern design and optimised operation

AMATRON 3 is AMAZONE's new terminal that enables you to control and operate both AMAZONE implements, which are not yet ISOBUS capable and also ISOBUS compatible machines of all makes. It combines the proven AMATRON+ characteristics and functionality in one clear housing with a new look at an impressive price to performance ratio! Thus AMATRON 3 is the ideal terminal for all those who intend to supplement their current AMAZONE machinery range with some new ISOBUS equipped machinery in the future.

Due to its clear, simple and logical handling and its back-lit keys, AMATRON 3 is especially operator-friendly. For an easy monitoring of the system, a high contrast and anti-glare display is utilised. The very compact dimensions of the computer mean little space is required in the tractor cab.

The functions GPS-Switch, GPS-Track and GPS-Maps are already pre-installed so that no additional software is needed. You can initially make use of these applications for 50 hours free of charge. Only then do you need to decide if you wish any of them to be permanently activated.

AMATRON 3 – the universal ISOBUS operator terminal

Top benefits of the AMATRON 3 operator terminal

- ⊕ AMATRON 3 is fully downwardly compatible to all AMATRON⁺ machinery which you may own already or intend to purchase.
- ⊕ At the same time the AMATRON 3 is compatible with all ISOBUS equipment and forms a bridge between the non-ISOBUS and the ISOBUS world without having to exchange the terminal.
- ⊕ The AMATRON 3 enables you to simultaneously operate several ISOBUS machines. Via the “toggle button” you just switch between the applications.
- ⊕ The standard Task Controller allows the processing of application maps in the ISO-XML format, also both in AMABUS and ISOBUS mode.
- ⊕ The Task Controller allows data exchange with a farm management software package on the farm PC. For this, the standardised ISO-XML format is used. Needless to say, the proven ASD interface is still available.
- ⊕ The following options are pre-installed for a 50 hour test period:
 - GPS-Switch – the GPS based, automated headland and part-width section shut-off for compatible machinery.
 - GPS-Track – the easy to operate, GPS based parallel driving aid which can also be operated in a stand-alone mode.
 - GPS-Maps – the additional module which allows the GPS-based processing of application maps in the Shape format, either in AMABUS or ISOBUS mode.
- ⊕ Back-lit keys
- ⊕ High contrast display





- ⊕ AMABUS and ISOBUS – the name AMABUS applies to AMAZONE implements that feature a job computer and which so far have been operated via AMATRON⁺. This is as oppose to ISOBUS implements and terminals that fulfil the ISO standard and which are also compatible with other non-AMAZONE implements meeting this standard.

AMATRON 3 operator terminal

AMATRON 3

For fertiliser spreaders, crop protection sprayers and seed drills



On AMAZONE UF, UG and UX crop protection sprayers, AMATRON 3 enables, in addition to the operation of the control chest and boom functions, the fully automated regulation of the pre-determined application rate (l/ha). Defined rate changes are quickly and precisely carried out.



AMATRON 3 enables you, for example, with an AMAZONE ZA-M fertiliser spreader in conjunction with the Comfort electronic pack, to electro-hydraulically access the Limiter border spreading device and the hydraulic shutter slides as well as for the forward speed related rate regulation.



On AMAZONE seed drills, AMATRON 3 is utilised for the electronic tramline control. Here also you can change the application rates in freely selectable steps. On the trailed Cirrus seed drills, the comprehensive electro-hydraulic functions, such as sowing depth or the intensity of soil tillage are operated via AMATRON 3.



- ✚ The IT-Farming concept makes AMATRON 3 a universal terminal for operation, rate control, monitoring and documentation of seed drills, sprayers and fertiliser spreaders. Via defined and open interfaces, data exchange with other IT Farming technologies is achieved.



GPS-Switch

The GPS-based, fully automated headland and part-width section control for fertiliser spreaders, crop protection sprayers and seed drills that are GPS-Switch ready. If a field has been established and its borders are known, in automatic mode the operator can fully concentrate on driving. GPS-Switch makes available the full function range of ISOBUS TC-SC (Task Controller SectionControl).



GPS-Track

The GPS-Track parallel driving aid turns out to be an enormous advantage for easy orientation in fields or on grassland without tramlines.



GPS-Maps

The additional module enables the GPS-based processing of application maps in the Shape file format, both when in AMABUS or ISOBUS mode.

The direct application rate can be used or the amount of spray agent required. With AMATRON 3, the spray rates can still be manually adapted in the field.

With the standardly available Task Controller, it allows the processing of application maps in an ISO-XML format, either in AMABUS or in ISOBUS mode.

AMATRON 3 operator terminal

Clear – logical – operator-friendly

AMATRON 3 is equipped with a VGA screen for maximum contrast and a wide angle of view. Needless to say that the screen and all the operating keys are back-lit for the highest ergonomics even at dawn and dusk.

Anti-glare display

Consists of the operating display and the function fields. Simple switch over between day and night mode.

Work display

Clearly shows the actual working status of the machine.

Escape key

For the quick change between the work and input menus (AMABUS).

On/Off key

Interface for external communication (ASD)

CAN interface

The connection of AMATRON 3 can be carried out via the tractor basic equipment or with the ISOBUS harness.

- ⊕ The terminal features Task Controller and the coupling to the automated field-related documentation (ASD) or to a sensor (e.g. nitrogen sensor). AMATRON 3 is also provided with an interface for the connection of a GPS receiver.





Toggle-Button

For toggling between applications, such as, for example, machine and GPS display.

Function keys

Quick and simple selection of the functions.

Function fields

Shows the functions available.

Cursor keys

For the easy application rate setting and the input of figures and letters (AMABUS and ISOBUS) as well as for navigation through the menu structure (ISOBUS).

Paging and ACK key

This key allows the recall of additional menu pages (AMABUS) or to confirm messages (ISOBUS).

GPS interface

Enables the connection of a GPS receiver or sensors (e.g. for information, such as forward speed or the PTO shaft speed) as well as the tractor ECU.

- ⊕ Multi-function joystick (optional)
Comfortable and convenient operation of all the functions via the joystick.



Joystick for machine operation

Via the joystick, operation of the machine functions is especially comfortable. A small toggle switch allows the

use of the eight keys in three different levels meaning that up to 24 functions can be utilised.



3x 8 keys
= 24 functions

GPS-Switch

The automatic headland and part-width section control



⊕ Benefits, for example, on a fertiliser spreader

The precise positioning via the satellite navigation system allows the fully automatic and exactly controlled switching on and off.

Via the 2, 6 or 8-fold part-width section control, the working width of an AMAZONE fertiliser spreader can be matched accurately to the conditions in the field – for example, in wedges or when “the last tramline does not work out precisely”. Via GPS Switch, all this is achieved in a quality not experienced so far: The operator terminal automatically detects whether an area is already worked and switches on or off the relevant part width section of the machine. The only pre-condition is that the fertiliser spreader is a ZA-TS model or features hydraulic spreading disc drive such as a ZA-M Hydro.



Favourably priced and functional. Simply connect with a “GPS-Switch ready” implement and the operator receives a superior level of comfort and the highest precision even at night or in poor visibility conditions. The GPS-Switch licence is only required once for each terminal – no matter how many implements are operated.

Your benefits

- ⊕ The modular assembly of the system allows the utilisation of already available GPS systems as a position locator, for example for track guidance. This helps reduce costs.
- ⊕ The driver can fully focus on driving and on the linked implement.
- ⊕ In addition to the high level of comfort for the driver, GPS Switch offers significantly more application quality and safety.
- ⊕ Operation after dark and at higher forward speeds is possible.
- ⊕ Irrespective of whether day or night, the system always operates at a maintained precision. In this way, the automatic headland and part-width section control always enables an optimised result and documentation.
- ⊕ Depending on field shape and size, savings in inputs of up to 5% are possible.
- ⊕ During crop protection and when sowing, the most important machine data is also shown in the GPS-Switch display.

Important information:

As an option, GPS-Switch can also be retrofitted to any AMATRON 3 already supplied.

GPS-Track

GPS-based parallel driving aid



+ GPS-Track – the useful aid for orientation in fields without tramlines

The GPS-Track optical parallel guidance system ensures that at all times – at pre-emergence, in the crop or when on grassland without tramlines – to make fullest use of the machine's working width and to avoid overlap. Counting maize rows was yesterday.



The GPS-Track parallel driving aid system proves to be a huge help for orientation in the field. It features different track modes, such as A-B line, contour following and an obstacle function. The tracks are clearly numbered all the way through. The deviation from the ideal line is graphically

shown in the display. Clear steering recommendations keep you in the track. Also the distance to the next bout is accurately displayed – for an ideal orientation, for example, when detecting the correct maize row. As an option, a light bar for installation in the driver's direct line of vision is offered.

Your benefits

- ⊕ GPS-Track is an easily and intuitively operated GPS-based parallel driving aid with a clear display and indication of the deviation in cm. The graphical display of a steering recommendation helps you to keep safely and relaxed in the correct track. You have never more easily remained on track!
- ⊕ Optimal for operation on grassland or at pre-emergence – never ever count maize rows again.
- ⊕ Can also be used in conjunction with GPS-Switch or stand-alone, e.g. with cultivators.

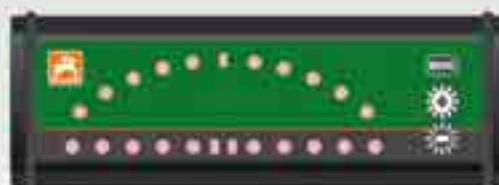
- ⊕ GPS-Track provides an obstacle recognition function: store any obstacles and be warned right in time.
- ⊕ This is the ideal supplement for your GPS-Switch!

Important information:

GPS-Track can also be retrofitted to GPS-Switch terminals or AMATRON 3 that have already been supplied.

⊕ Light bar

As a possibility, an external light bar display is available for installation in direct view; keeping the AMATRON 3 at the side for ideal operation.



GPS-Maps

Application maps easily utilised



+ GPS-Maps – Precision Farming made easy

Simple and intuitive realisation of application maps: The maps can be imported in the usual file formats and can even be adapted in the terminal to the prevailing situation. A desk top programme is not required. No matter whether you intend to use ready-prepared maps or maps with pure agent quantities – simply download, adapt and drive off.



GPS-Maps, the additional module enabling the GPS-based processing of application maps in a Shape format. Both in AMABUS and in ISOBUS mode. The only pre-condition is a Shape file in WGS-84 format.

AMATRON 3 offers two different possibilities to utilise application maps. Either you directly use the desired rate as

fertiliser weight, application rate, seed weight or the number of grains per hectare. On the other hand, you can also use directly the desired agent quantity. With the additional information of the agent content, AMATRON 3 autonomously calculates the required weight or application rates.

Your benefits

- ⊕ GPS-Maps is an intuitive system for application map processing.
- ⊕ Automatic regulation of the application rate according to application maps.
- ⊕ Easy import of data via a USB stick.

- ⊕ Optimum crop management by appropriate application.

Important information:

GPS-Maps can also be retrofitted to any GPS-Switch terminals or AMATRON 3 already supplied.

Task Controller (job management)

For machine integrated data recording and job management

Task Controller allows the data recording on the machine and the data exchange between the machine and the farm management information system. For this the standardised ISO-XML data format is utilised.

Depending on the level of sophistication possible

- ⊕ Download or the creation of jobs
- ⊕ Processing of jobs
- ⊕ Documentation of the work done
- ⊕ The data for processing is imported and exported with the aid of a USB stick

TC-BAS – Task Controller basic

Describes the documentation of summarised values which make a sensible overview of the work completed. The implement supplies the values. The data exchange between field job file and Task Controller is carried out via an ISO-XML data format. Thus, jobs can be conveniently imported into the Task Controller and/or the finished documentation can be exported again.

TC-GEO – Task Controller geo-based

The additional possibility also exists to collect site related data – or to plan site specific related jobs, for example via application maps.



Modern and future-oriented

Safe, simple documentation

The automated job related documentation (ASD) is a product and manufacturer overlapping documentation concept for the transfer of field related data between the AMATRON 3 operator terminal and the electronic job file. The interface utilised is available to all manufacturers.

With ASD, the farmer is given the possibility to integrate all machinery into the documentation chain simply and at a favourable price.



Listed here is a choice of providers with whom the automated plot related documentation (ASD) is possible:



Is your provider not included? Then please contact us!

The comprehensive level of equipment of the AMATRON 3 includes the ASD interface to utilise sensor technology – (e.g. Yara N-Sensor, N-Sensor ALS or Cropmeter), application maps or GPS terminals for the transfer of predetermined values and documentation.

The communication with sensors and the determination of actual values from external terminals is carried out via this connection. At the same time, the documentation is available in AMABUS.



⊕ N-Sensor technology for the precise, plant controlled application



One terminal for all AMAZONE machinery

Fertiliser spreaders



ZA-M mounted spreader



ZA-M Ultra mounted spreader



ZA-TS mounted spreader



ZG-TS trailed spreader

Sprayers



UF mounted sprayer



UG trailed sprayer



UX trailed sprayer



Pantera self-propelled sprayer

Seed drills



D9 gravity mounted seed drill



AD gravity pack top seed drill



AD-P Special and AD-P Super
pneumatic mounted seed drills



Avant mounted sowing
combination with front tank



Cirrus large area trailed
sowing combination



Cayena trailed tine seeder



Citan trailed solo seed drill



EDX precision air seeder

Illustrations, content and technical data are not binding! Machine illustrations can vary due to country-specific traffic legislation.



AMAZONEN-WERKE H. DREYER GmbH & Co. KG

P. O. Box 51 · 49202 Hasbergen-Gaste/Germany

Phone +49 (0)5405 501-0 · Fax +49 (0)5405 501-193