DATASHEET
OEM SOLUTIONS

ISOBUS SPRAYER-CONTROLLER ORCHARD/VINEYARD

Ultrasonic Sensors

The use of our high-precision ultrasonic sensors enables efficient crop detection in vineyards and orchards. The targeted exclusion of crop-free areas during the application of plant protection agents has a double positive effect: the environment is protected and costs are reduced at the same time.



Key Benefits

- Cost reduction through savings on plant protection agents
- Protection of the environment
- Individual setting of overlaps when switching on and off
- Automatic detection of the headlands using the GPS
- Compass direction



Precise

The use of ultrasonic sensors makes crop detection in vineyards and orchards more precise. By assigning a sensor to each spray area, different height levels can be detected. A total of up to 18 sensors can be used, ensuring extremely accurate and versatile detection. There are 3 different types of ultrasonic sensors are available. These variants differ only in their working range to ensure that we can provide the tailor-made solution for all conditions of use in orchards and vineyards.

Reliable

If ultrasonic sensors are mounted too closely, interference may occur. This solution enables sensor synchronization to prevent it. User parameters allow independent optimization of switching points and section widths.

Headland detection

The GPS compass direction enables automatic headland detection using the AG-200 or the ME-ISOBUS weather station. The application automatically switches the spraying areas on and off. This means that objects on the headland are not sprayed unintentionally.synchronisation

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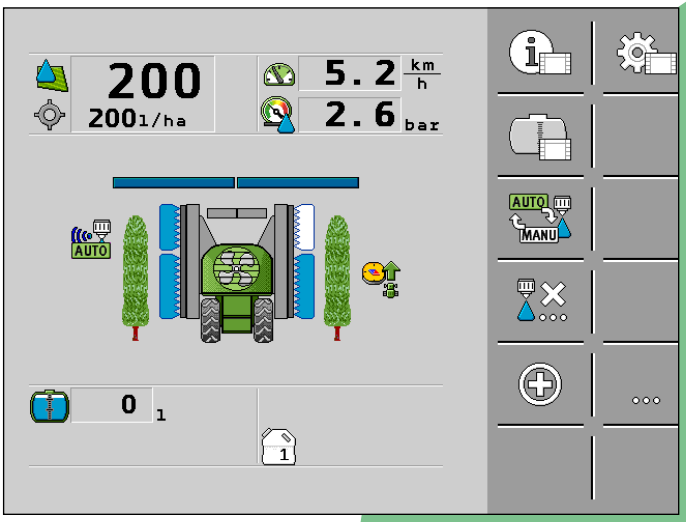
Gap detection using Ultrasonic Sensors

Ultrasonic sensor variants	Item no.
Ultrasonic sensor 130, 4 – 20 mA (working area 20 – 130 cm)	3030383006
Ultrasonic sensor 340, 4 – 20 mA (working area 35 – 340 cm)	3030383007
Ultrasonic sensor 600, 4 – 20 mA (working area 60 – 600 cm)	3030383008



Headland detection using the GPS compass direction

Version 1: GNSS/RTK antenna connection to the terminal

- GNSS /RTK antenna

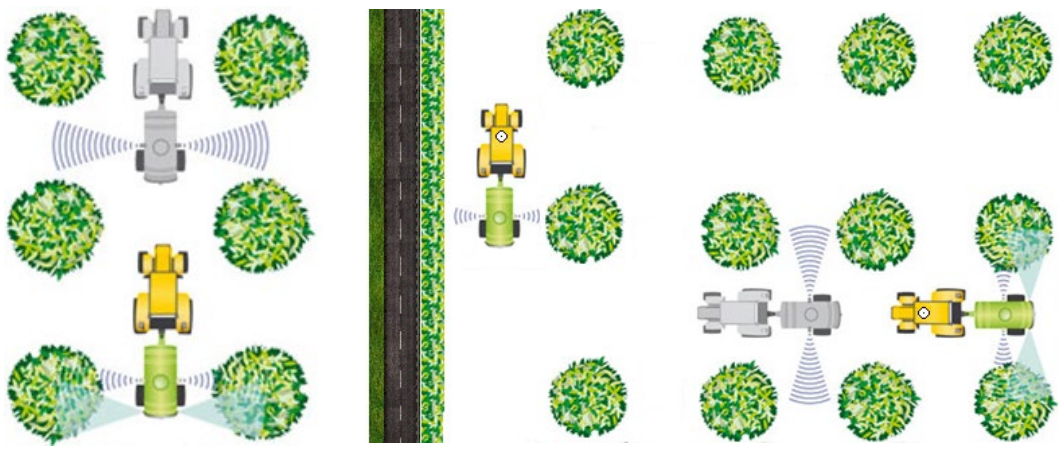
Version 2: ISOBUS Weather Station

- Connection of the ISOBUS Weather Station to the terminal
- Connection of the ISOBUS Weather Station to the ISOBUS

Version 3: GNSS antenna connection to the ISOBUS

- GNSS receiver AG-200 with CAN output





PTx OEM Solutions | www.ptxag.com | oem@ptxag.com
PTx Trimble GmbH, Franz-Kleine-Str. 18, 33154 Salzkotten, Germany | Precision Planting, 23207 Townline Rd, Tremont, IL 61568, USA
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