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# ISOBUS UNI SPREADER-CONTROLLER

## Control System MIDI 3.0

The ISOBUS application for universal spreaders is based on the MIDI 3.0 computer. It is a versatile control unit designed for all conventional universal spreaders and manure spreaders.




## Key Benefits

- High software flexibility and customization options
- OEM adjustments possible
- Significant increase in yield performance
- Optimized, crop-specific input application across heterogeneous field conditions
- Precious fertilizer is applied precisely where it is needed, reducing waste and maximizing efficiency



## Maximum Scope of Functions

The **application rate** is automatically controlled by regulating the conveyor belt speed.

Various **sensors** provide continuous feedback on key operating parameters such as gate opening height and spinner unit speed.

In addition to monitoring, the controller allows precise control of various **hydraulic functions,** such as opening and closing the rear door, operating spread limiters, and adjusting the chassis.

The automated detection of field or road is based on the forward speed and prevents operating errors.

## Reliable Documentation

The integrated **ISOBUS Task Controller** enables reliable documentation via ISO-XML, ensuring accurate and efficient data recording.

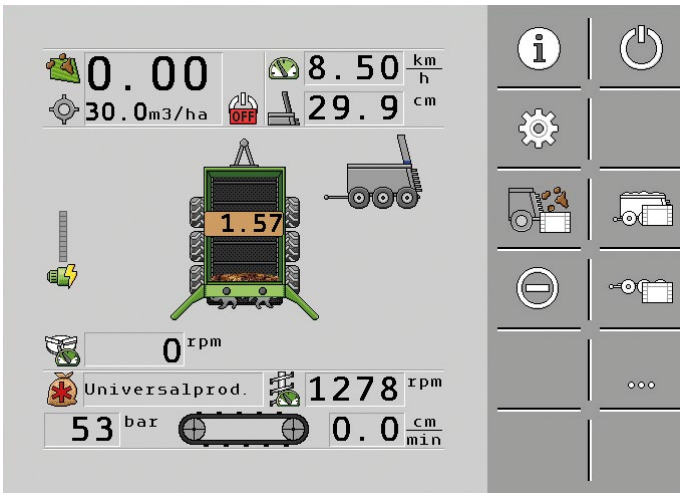
Thanks to its flexible hardware and software design, the system ensures long-term compatibility, stability and up-to-date technology.

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Work screen of the ISOBUS UNI SPREADER-Controller with real-time display of individual product rates, forward speed, and spinner and belt speeds.

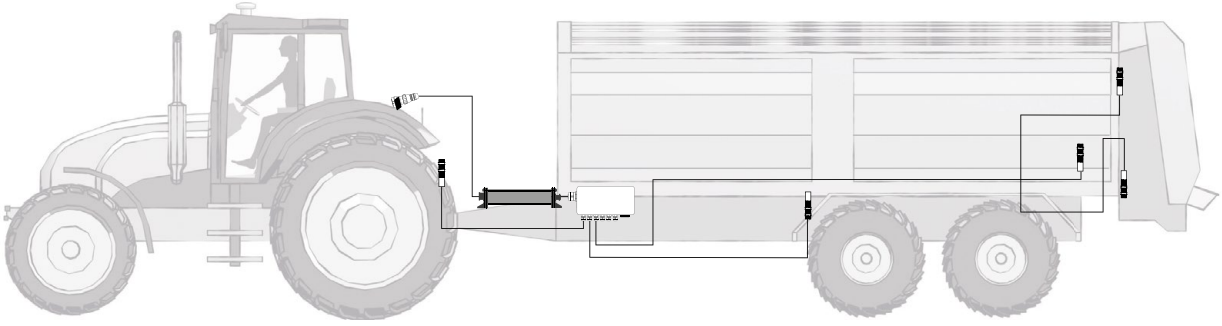
## Functions

- Hydraulic functions such as raising the side extensions, spread limiter, back door and chassis functions, can be single- or double-acting.
- Sensors are used e.g. to monitor the speeds of the beaters and spinners and to immediately detect any blockages.
- Connection to a weighing system is possible for static and dynamic weight determination.
- Dynamic application control in conjunction with a weighing system (preferably PTx Trimble SCALE-Controller)
- Automatic activation and deactivation of the spreader and boundary spreading devices possible via Section Control
- Product database covering over 10 different products
- Various automatic functions, such as automatic opening of the metering slide or automatic top-dressing
- Warning device in accordance with SN EN 690:2014

**In addition:** Working lights, top link, active suspension, steering axle, lift axle, hydraulic drawbar, beacon light, cover, side extension, SC via boundary devices, central lubrication, warning device, auto start/stop spreading function etc.

| Technical | |
|---|---|
| Processors (2) | 32-bit ARM Cortex-M4 CPU 168 MHz, 2048 KB flash; 256 KB RAM |
| External memory | SPI-Flash 16 MB; SDRAM 16 MB; FRAM 16 kByte |
| Connections | 42-pin connector for connecting actuators/sensors<br>2x 16-pin connector for power supply and CAN<br>The connectors can be locked and equipped with single conducto insulations |
| Interfaces | Up to 3xCAN* |
| Power supply | 12 V electrical system (9-16 V), maximum current consumption 30 A |
| Current consumption (IN) | 500 mA (at 14.4 V without power output, without supply to external sensors) |
| Standby current (OFF) | 70 µ A (typ.) |
| **Temperature** | |
| Operating and storage temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| **Housing** | |
| Housing | Anodised aluminium continuous cast casing, plastic lid with seal and pressure compensation element, stainless steel screws |
| Protection rating | 1IP6K6K (with installed connectors) |
| Dimensions | Approx.<br>L 262 mm (10.3")<br>W 148 mm (5.8")<br>H 62 mm (2.4")<br>(Without connector) |
| Weight | Approx. 1 kg (2.2 lbs) |

## System Overview



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