The world’s most versatile controller

IntelliAg™ puts the future of application control in your cab, providing state-of-the-art communication between implement and tractor. This precision farming system monitors and controls with just one terminal, eliminating the need for multiple controllers.

Because IntelliAg is designed to the ISO 11783 standard, it is interchangeable with other manufacturers’ compatible equipment.

Use IntelliAg with:
Sprayers
Fertilizer Spreaders
Anhydrous Ammonia bars
Planters/Grain Drills
Air Carts

BENEFITS

- Standard electrical connector at hitch for convenient plug and play installation
- Lower equipment cost—no need for different controllers for different farm applications
- Off-the-shelf ISO 11783 conformance allows for quick retrofitting to tractors and implements
- Only one terminal to learn
- Full screen alarms identify abnormal or failed operation on all enabled system components/controls
- Control hydraulic valves (pulse-width modulated and servo)
- Reduce wiring and harnessing
- Monitor up to 196 rows of seeding
- Monitor hopper level, air pressure, and shaft speed
- Retain information even in power failure
- Variable-rate application
- Log as-applied data

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DICKEY-john®
Planter Control

The IntelliAg™ planter/drill system (PDC) opens the opportunity to use the planter for more than just an implement to put seeds in the ground. The system provides planter monitoring of seeds being placed in soil by each row unit, including counting seeds planted per hectare, centimetres between seeds, and average population.

The IntelliAg also controls the number of seeds planted per hectare. Just set the desired target population rate and drive with the flexibility to increase or decrease the population on the go. Change population rates manually from the cab or by using prescription application rates generated on your computer and loaded into the IntelliAg.

In addition, the planter/drill system features inputs for 16 seed sensors along with auxiliary sensors such as hopper level, air pressure, and shaft RPM.

4 independent control channels for:
- Row crop planter seeding (Seeds/Hectare)
- Grain drill seeding (Kg/Hectare)
- Liquid spraying (Litre/Hectare)
- Granular fertilizer (Kg/Hectare)

Planter monitor functionality (max. 196 rows)

Monitor accessory implement sensors including hopper level, air pressure, shaft RPM, ground speed, lift switch
IntelliAg Planter/Drill Control Implement Harness

Refer to the following diagrams for implement harness layout and connections. The diagrams provide an example system using one module and a CAN extension.

NOTE: Connect the WSMT Actuator Harness and the Planter Harness to the mating connectors of the WSMT Module Harness.
Air Cart Monitoring and Control

The IntelliAg™ air cart control system allows for full utilization of a 1 to 4 bin air cart. The system monitors seed or fertilizer traveling through the air system to ensure the material is getting to the soil and not being trapped in a hose.

The system uses a low-cost, yet high-tech flow sensor that can detect a flow or blockage situation. If a hose is blocked, a visual and audible alarm indicates the sensor number along with a stop sign symbol for quick analysis. A maximum of 216 delivery hoses can be monitored for this condition simultaneously.

The IntelliAg also controls the kilograms of seed or fertilizer that are applied per hectare by each air cart bin independently. Just set the target material rate desired and drive with the flexibility to increase or decrease the rate of each bin on the go. Change rates manually from the cab or by using prescription application rates generated on your computer and loaded into the IntelliAg.

The air cart control system also includes inputs for auxiliary sensors such as hopper level, air pressure, and shaft RPM.
IntelliAg
AIR CART IMPLEMENT HARNESS

Refer to the following diagrams for implement harness layout and connections. The diagrams provide an example system using one module and a CAN extension.

- Fan/Shaft RPM Sensors x 2
  - Labeled RPM 2 - RPM 3
- Hopper Low Level Sensors x 3
  - Labeled HOPPER 2 - HOPPER 4
- Air Pressure Sensors x 4
  - Labeled AIR PRESSURE 1 - AIR PRESSURE 4
- Application Rate Sensors x 4
  - (Channel 1 - 4 Feedback)
  - Labeled FB 1 - FB 4
- PWM Solenoid Valves
  - Channel 1 - 4 Control
  - Labeled PWM 1 - PWM 4
- Hopper Low Level Sensor
  - Labeled HOPPER 1
- Implement Lift Sensor
  - Labeled IMP LIFT
- Fan/Shaft RPM Sensor
  - Labeled RPM 1
- Ground Speed Sensor
  - Labeled GND SPEED

Connect harnesses and accessory devices as shown. Verify that PWM Solenoid Valves have a properly-connected Feedback sensor.

Connect to Tractor Cab Harness
Connect to next module harness or implement extension harness
(Connect CAN terminator if this is the last module on the CAN bus)

WSMT Monitor Harness 467980200
WSMT Module Harness 467980850
WSMT Actuator Harness 467980161

Connect to next module harness or implement extension harness
(Connect CAN terminator if this is the last module on the CAN bus)
Granular Spreader Control

The IntelliAg™ granular spreader control system (GCIV) is designed with features tailored specifically for self-propelled granular spreaders.

The control system uses a 360 pulse-per-revolution feedback sensor. This mounts on the shaft of the granular material delivery system to provide accurate information relative to the granular material being applied.

Pulse-width-modulated or servo-drive hydraulic control valves are controlled by the granular controller to maintain the desired application rate. These hydraulic valves are available in a wide range of sizes to provide the most efficient litre per minute flow of oil required by the hydraulic motor (0-95 lpm).

Just set the desired target material rate and drive with the flexibility to increase or decrease the rates of each material being applied on the go. Change rates manually from the cab or by using prescription application rates generated on your computer and loaded into the IntelliAg.

For conventional V-Box spreaders, the IntelliAg offers a spinner or spread width control feature to allow adjustment of the spread width from the cab.

The spreader system includes 4 channels of granular control and inputs for auxiliary sensors such as hopper level, shaft RPM and 5 air boom shutoff inputs.
Sprayer Control

The IntelliAg™ sprayer control system (LIQIV) is designed with features tailored specifically for self-propelled liquid sprayers. The control system can use either pressure sensor or flow meter feedback of liquid flow rate and works with a wide range of liquid servo control valves or hydraulic control valves.

Just set the desired target material rate and drive with the flexibility to increase or decrease the rates of each material being applied on the go. Change rates manually from the cab or by using prescription application rates generated on your computer and loaded into the IntelliAg.

Add a cab-mounted boom shutoff switch module for manual on/off control of up to 24 boom shutoff valves. Each module in this boom shutoff module can control up to 6 booms for customizing and maximizing cab space.

The sprayer control system also includes 4 channels of liquid control and inputs for auxiliary sensors such as liquid pressure, shaft RPM, and 7 boom shutoff inputs.
Anhydrous Control

The IntelliAg™ anhydrous (NH₃) control system provides automatic ground speed control for the application of anhydrous ammonia only. The system is capable of up to 2 independent channels of control for better utilization of anhydrous application on large tool bars. This allows the tool bars to be split in half and vary the rate of each section while traveling through the field.

Equip the anhydrous tool bar with DICKEY-john anhydrous cooling system, and the IntelliAg will control the kilograms per hectare of anhydrous ammonia applied.

Just set the desired target material rate and drive with the flexibility to increase or decrease the rates of each material being applied on the go. Change rates manually from the cab or by using prescription application rates generated on your computer and loaded into the IntelliAg.

The IntelliAg system features visual readout and display of important application information such as kilograms per hour flow rate of anhydrous, total kilograms of NH₃ applied, current NH₃ tank level, along with field area covered.