

# CONTROL SYSTEMS

**FOR PRECISION FARMING** 









# INTELLIAG® CONTROL SYSTEMS

Compatible with a variety of implements, the DICKEY-john IntelliAg® Precision Farming System monitors and controls with just one terminal, eliminating the need for multiple controllers.

Because IntelliAg is designed for the ISO 11783 standard, it is interchangeable with other manufacturers' compatible equipment including:

- John Deere®
- AGCO
- Case IH

2

#### **Benefits of IntelliAg**

- ISO 11783 conformance allows for a common installation to interface with and operate multiple implements
- Standard electrical connector at hitch for convenient plug and play installation
- Full screen alarms identify abnormal or failed operations
- Retains information when power failure occurs
- Provides variable rate application capability, as-applied mapping, and auto section

#### **IntelliAg AI Virtual Terminals**

The AI Virtual Terminals (VT) are mounted inside the tractor cab and are the main user interface with the IntelliAg system.

#### **All Al Virtual Terminals Feature**

- Graphic-defined keys for navigation
- Escape key
- Backlit graphics display for night-time use
- Backlight intensity adjustment
- English or metric measurements
- SD card slot to support VT reprogramming

#### Al 120 & Al 100 Virtual Terminal

- 4-channel variable-rate prescription
- Compatible with GPS receiver/NMEA
- ISO compliant
- Video display (connects to 2 optional cameras)
- SD card slot (for saving configuration files, as applied data, and prescription application)
- Terminal generates as-covered maps
- Supports multiple languages
- 10" color screen (Al 100)
- 12" color screen (AI 120)
- Al 120 has integrated auto section control and is compatible with Topcon auto steering

#### **AI 50 Virtual Terminal**

- A 240 pixel X 240 pixel color graphics display
- Integrated Tractor ECU
- Economical
- 5" color screen

The IntelliAg Control System starts with a base of required components and is customizable to your specific application with a variety of additional optional components.

#### **Required Components**

- Virtual Terminal
- Master Switch
- Working Set Master (WSMT2)
- Harnesses
- CAN Terminators
- Tractor Electronic Control Unit (TECU)

#### **Optional Components**

- Working Set Member Module (WSMB)
- Row Switch Module with Planter
- Output Module
- Remote Test Switch
- Implement Lift Switch

#### WSMT2

The Working Set Master Module (WSMT2) houses the system's primary interface device. All system parameters, constants, and memory are stored in the WSMT2 and controls the application of material by interfacing with proportional hydraulic valves and feedback sensors.

WSMT2 modules are available for different implement applications, including sprayers, fertilizer spreaders, anhydrous bars, planters/grain drills, and air carts.

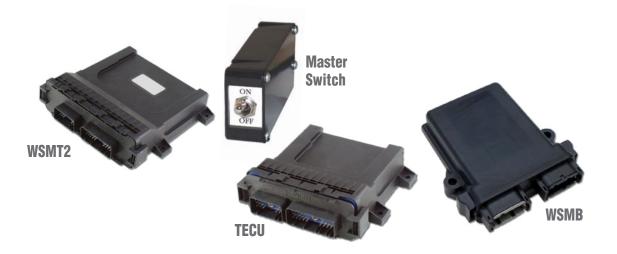
#### **TECU**

The Tractor Electronic Control Unit (TECU) manages the power on the CAN BUS and accessory sensor inputs connected to the tractor cab harness, such as ground speed.

#### **WSMB**

The Working Set Member Module (WSMB) is an auxiliary to the Working Set Master Module (WSMT2) and provides inputs from seed sensors for additional row monitoring. Each WSMB can accept up to 18 rows of seed sensors and passes information directly to the WSMT2. Up to 10 WSMB's can be installed virtually anywhere on the implement to monitor up to 196 rows.





The IntelliAg Planter/Drill System (PDC) provides planter monitoring and control of seeds being placed in soil by each row unit, including counting seeds planted per acre, inches between seeds and average population.

- Planter monitor functionality (max. 196 rows)
- 4 independent control channels for:
- Row crop planter seeding (seeds/acre)
- Grain drill seeding (lbs./acre)
- Liquid spraying (gal./acre)
- Control over the number of seeds planted per acre and ease of use to set the desired target material rate and go
- Prescription variable rate flexibility to increase or decrease the population as you drive through the field
- Manual population rate changes from the cab or by using prescription application rates loaded into the IntelliAg from your computer
- with accessory implement sensors including 2 hopper level, 2 air pressure, 2 shaft RPM, 1 ground speed sensor, and 1 lift switch
- Auto-row shutoff control that utilizes Tru Count Clutches (24 rows)

connected with an ISO-compliant virtual terminal already in your tractor.



#### **Row Shutoff Module**

Row Shutoff Module is used to provide physical in-cab switching for manual on/off control of row section 1-6.



#### **Air Pressure Sensor**

Air Pressure Sensor measures air pressure in the seed hopper.



#### **Hopper Level Sensor**

Hopper Level Sensor alerts when seed or granular material reaches a low level in the hopper.

#### The system provides:

- Granular fertilizer (lbs./acre)

Monitoring of 16 seed sensors along

The IntelliAg Planter/Drill System can be



# **Application**

Application Rate Sensors measure shaft rotation speed.

**High Rate Seed Sensor** High Rate Seed Sensor delivers

improved population counts

and is capable of detecting

small seeds like milo,

beets and cotton.

#### WSMR

WSMB processes up to 18 seed sensor inputs and communicates them to the control module. An accessory module is required for planters larger than 16 rows.

#### HD 4180 Hydraulic Motor/Control Valve

Automatically adjusts planter and fertilizer rates while moving.



#### WSMT2-PDC

WSMT2-PDC processes sensor inputs and communicates them to the control unit in the tractor cab.

#### Implement Lift Switch

Implement Lift Switch enables or disables implement function and attaches to 3-point hitch or lift cylinder.

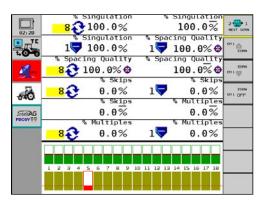
#### **Planter Base System**

- IntelliAg Virtual Terminal A1 PLUS, 10" color touch screen w/SD card slot
- Tractor harness for use with 10" Virtual Terminal
- System power harness with ISO hitch connector
- ISO master switch to control on/off
- Hitch extension harness
- WSMT2-PDC
- WSMT2 T harness

#### **Working Set Member** Module 2 (WSMB2)

Seed singulation and spacing quality are features available when adding a Working Set Member 2 (WSMB2) module within each seed row.

Singulation displays a percentage of seeds counted versus seeds expected. Spacing quality reflects how much spacing is occurring between each seed while planting and provides a comparison of row-to-row meter performance.



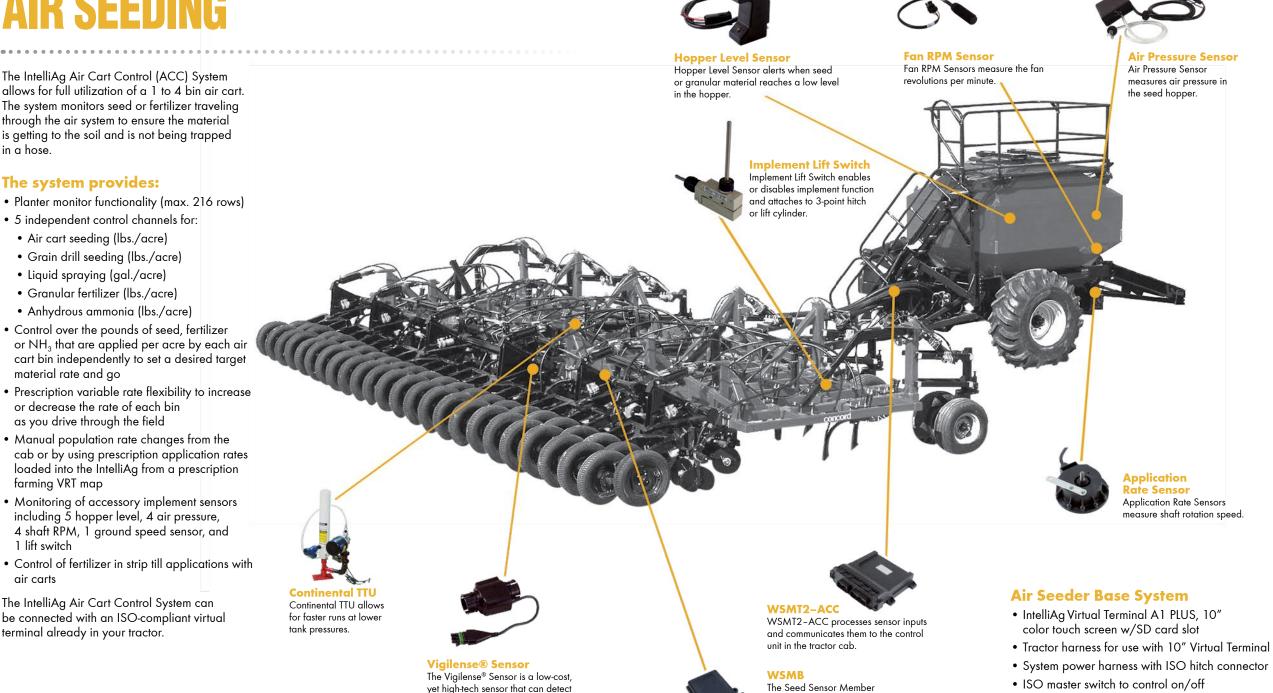
IntelliAg Work Screen displaying Seed Singulation %, Spacing Quality, Skips, and Multiples.

The IntelliAg Air Cart Control (ACC) 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 is not being trapped in a hose.

#### The system provides:

- Planter monitor functionality (max. 216 rows)
- 5 independent control channels for:
- Air cart seeding (lbs./acre)
- Grain drill seeding (lbs./acre)
- Liquid spraying (gal./acre)
- Granular fertilizer (lbs./acre)
- Anhydrous ammonia (lbs./acre)
- Control over the pounds of seed, fertilizer or NH<sub>3</sub> that are applied per acre by each air cart bin independently to set a desired target material rate and go
- Prescription variable rate flexibility to increase or decrease the rate of each bin as you drive through the field
- Manual population rate changes from the cab or by using prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- Monitoring of accessory implement sensors including 5 hopper level, 4 air pressure, 4 shaft RPM, 1 ground speed sensor, and
- Control of fertilizer in strip till applications with

The IntelliAg Air Cart Control System can be connected with an ISO-compliant virtual terminal already in your tractor.



yet high-tech 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 mounted for this condition simultaneously.

Module processes a maximum of 216 rows of seed flow monitoring (12 modules). An accessory module is required for processing 18 seed sensor inputs for communication to the control module.

- Hitch extension harness
- WSMT2-ACC WSMT2 T harness
- Control harness for connection to valves and feedback sensors

### **ANHYDROUS**

The IntelliAg Anhydrous (NH<sub>3</sub>) Control System provides automatic ground speed control for the application of anhydrous ammonia only.

#### The system provides:

- Up to 2 independent channels of anhydrous ammonia control and allows large tool bars to be split in half and vary the rate of each section while traveling through a field.
- Control of the pounds per acre of anhydrous ammonia applied when a DICKEY-john anhydrous cooling system is paired with an anhydrous tool bar
- Flexibility to increase or decrease the rates of each material being applied on the go by setting a desired target material rate
- Manual rate changes from the cab or using automatic prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- Capable of six sections of auto swath control
- Visual readout and display of important application information such as pounds per hour, flow rate of anhydrous, total pounds of NH<sub>3</sub> applied, current NH<sub>3</sub> tank level, along with field area covered
- The capability to log as-applied data and generate an as-covered map

The IntelliAg Anhydrous Control System can be connected with an ISO-compliant virtual Terminal already in your tractor.



#### **Boom Shutoff Module**

Boom Shutoff Module is used to provide physical in-cab switching for manual on/off control of boom sections 1-6.



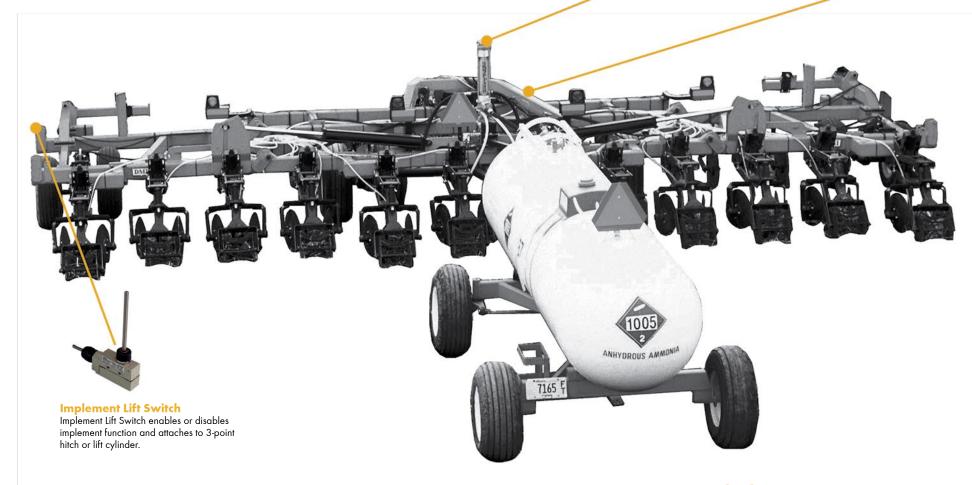
#### Continental TTU

Continental TTU allows for faster runs at lower tank pressures.



#### WSMT2-NH<sub>3</sub>

WSMT2-NH<sub>3</sub> processes sensor inputs and communicates them to the control unit in the tractor cab.



#### **Anhydrous Base System**

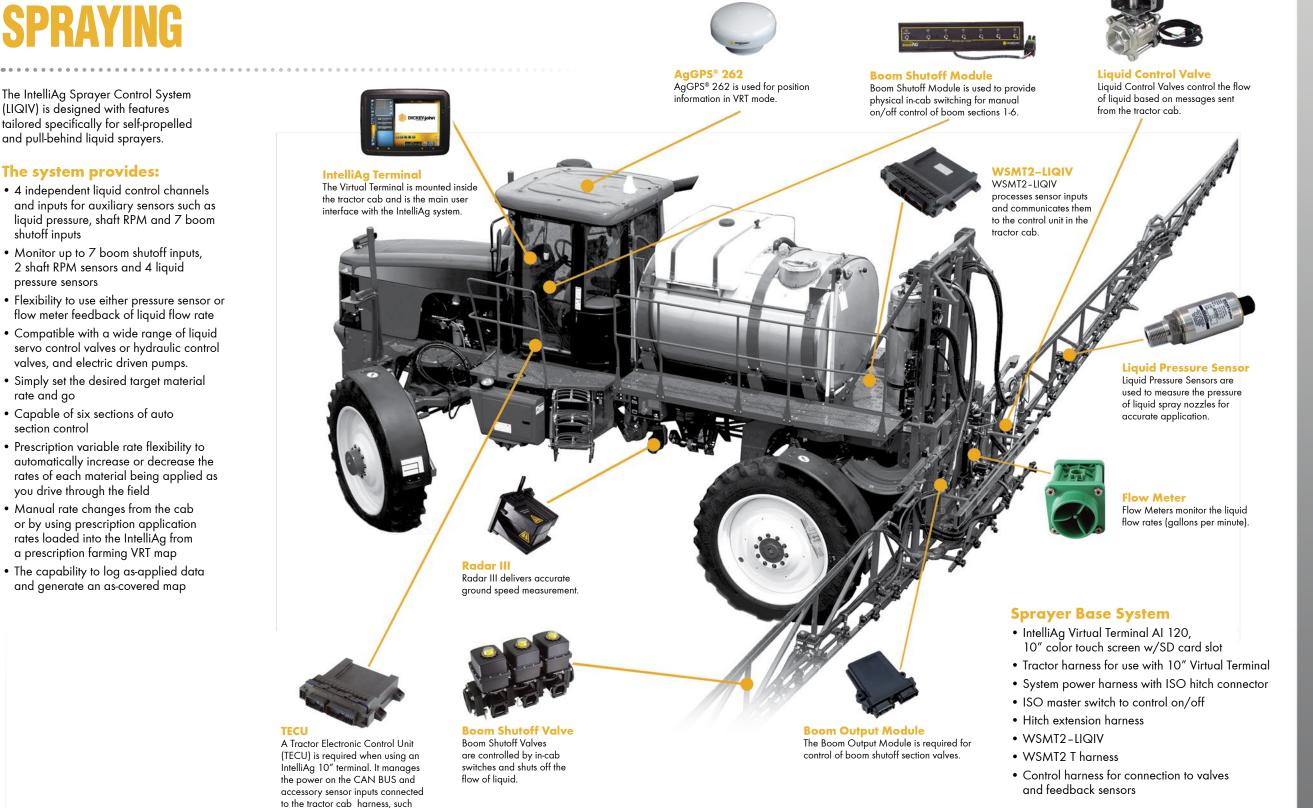
- IntelliAg Virtual Terminal AI 120, 10" color touch screen w/SD card slot
- Tractor harness for use with 10" Virtual Terminal
- System power harness with ISO hitch connector
- ISO master switch to control on/off
- Hitch extension harness
- WSMT2-NH<sub>3</sub>
- WSMT2 T harness
- Control harness for connection to valves and feedback sensors

The IntelliAg Sprayer Control System (LIQIV) is designed with features tailored specifically for self-propelled and pull-behind liquid sprayers.

#### The system provides:

- 4 independent liquid control channels and inputs for auxiliary sensors such as liquid pressure, shaft RPM and 7 boom
- Monitor up to 7 boom shutoff inputs, 2 shaft RPM sensors and 4 liquid pressure sensors
- Flexibility to use either pressure sensor or flow meter feedback of liquid flow rate
- Compatible with a wide range of liquid servo control valves or hydraulic control valves, and electric driven pumps.
- Simply set the desired target material rate and go
- Capable of six sections of auto section control
- Prescription variable rate flexibility to automatically increase or decrease the rates of each material being applied as you drive through the field
- Manual rate changes from the cab or by using prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- The capability to log as-applied data and generate an as-covered map

as ground speed.



The IntelliAg Granular Spreader Control System (GCIV) is designed with features tailored specifically for self-propelled and pull-behind granular spreaders.

#### The system provides:

- 4 channels of granular control and inputs for auxiliary sensors such as hopper level, shaft RPM, gate height, and 5 air boom shutoff inputs
- Monitoring of 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, servo-drive hydraulic control valves, and electric motor drives are controlled by the granular controller to maintain the desired application rate.
- Simply set the desired target material rate and go
- Prescription variable rate flexibility to increase or decrease the rates of each material being applied as you drive through the field
- Manual rate changes from the cab or by using prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- A spinner or spread control feature to allow adjustment of the spread width from the cab for conventional V-Box spreaders
- The capability to log as-applied data and generate an as-covered map
- Monitoring of up to 5 boom shutoff inputs, 2 shaft RPM sensors, 2 bin level sensors, and 4 gate height sensors

as ground speed.



## **AS APPLIED**

An As-Applied job can be started quickly to record as-applied data. Several features are available when creating an As-Applied job.

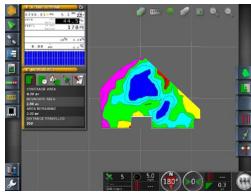
#### Features include:

- Creating a field boundary
- Creating exclusion zones
- Creating flag points to mark field obstacles
- Creating headlands
- Using boundary offsets
- Exporting job as a .pdf to a job report

Variable rate control job data is created using a farm management software tool and is imported to the terminal via a USB memory device. Automatic rate adjustment occurs when entering different zones in the prescription map.



Al 120 Guidance Screen



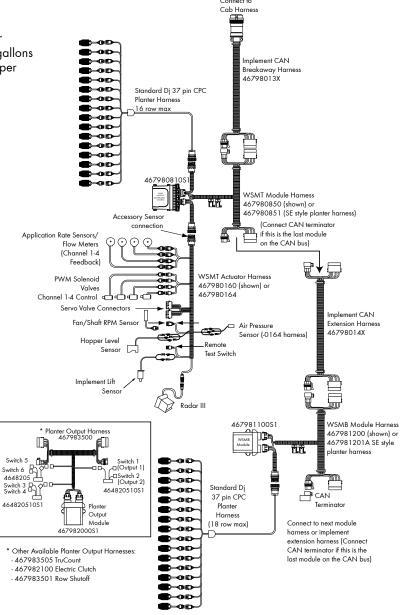
Imported Variable Rate Map

#### Planter/Grain Drill **Control Module**

4 control channels can be set for planter seeding (seeds per acre), liquid spray (gallons per acre), or granular fertilizer (pounds per acre) application.

#### **Accepts inputs from:**

- 1 Hopper level sensor
- 1 RPM or 2 air pressure sensors with 11001-0164 accessory harness
- 1 implement lift switch
- 1 Ground speed sensor
- 16 Seed sensors
- Optional Working Set Member can accept additional seed sensors
- Optional Working Set Member output modules can be connected



# **WORLD LEADER**

#### AGRICULTURE PRECISION

When you take a need, add inspired ingenuity and develop the result with unsurpassed quality, you get market-leading technology in the Agriculture Industry

#### **Market-Leading Technology:**

- DICKEY-john developed the ag industry's first successful planter monitor
- DICKEY-john was one of the industry's first to be ISO 9001: 2008 quality certified
- DICKEY-john was the first to offer a complete precision agriculture package with IntelliAg and Trimble AgGPS AutoSteering
- DICKEY-john offers the award-winning handheld moisture tester mini GAC® - that uses the same technology as the U.S. federal standard

Customers on six continents depend on our precision products to perform in the most rugged environments. In-house manufacturing and an on-site engineering team help us maintain that DICKEY-john standard of quality.

When you buy DICKEY-john, you're making an investment in the future of your operation. Because DICKEY-john products solve not only today's needs but also tomorrow's challenges.





# CONTROL SYSTEMS

**FOR PRECISION FARMING** 



IntelliAg® puts the future of application control in your cab providing state-of-the-art communication between implement and tractor.





# INTELLIAG® CONTROL SYSTEMS

Compatible with a variety of implements, the DICKEY-john IntelliAg® Precision Farming System monitors and controls with just one terminal, eliminating the need for multiple controllers.

Because IntelliAg is designed for the ISO 11783 standard, it is interchangeable with other manufacturers' compatible equipment including:

- John Deere®
- AGCO
- Case IH

#### **Benefits of IntelliAg**

- ISO 11783 conformance allows for a common installation to interface with and operate multiple implements
- Standard electrical connector at hitch for convenient plug and play installation
- Full screen alarms identify abnormal or failed operations
- Retains information when power failure occurs
- Provides variable rate application capability, as-applied mapping, and auto section

#### **IntelliAg AI Virtual Terminals**

The AI Virtual Terminals (VT) are mounted inside the tractor cab and are the main user interface with the IntelliAg system.

#### **All Al Virtual Terminals Feature**

- Graphic-defined keys for navigation
- Escape key
- Backlit graphics display for night-time use
- Backlight intensity adjustment
- English or metric measurements
- SD card slot to support VT reprogramming

#### Al 120 & Al 100 Virtual Terminal

- 4-channel variable-rate prescription
- Compatible with GPS receiver/NMEA
- ISO compliant
- Video display (connects to 2 optional cameras)
- SD card slot (for saving configuration files, as applied data, and prescription application)
- Terminal generates as-covered maps
- Supports multiple languages
- 10" color screen (AI 100)
- 12" color screen (AI 120)
- Al 120 has integrated auto section control and is compatible with Topcon auto steering

#### **AI 50 Virtual Terminal**

- A 240 pixel X 240 pixel color graphics display
- Integrated Tractor ECU
- Economical
- 5" color screen

The IntelliAg Control System starts with a base of required components and is customizable to your specific application with a variety of additional optional components.

#### **Required Components**

- Virtual Terminal
- Master Switch
- Working Set Master (WSMT2)
- Harnesses
- CAN Terminators
- Tractor Electronic Control Unit (TECU)

#### **Optional Components**

- Working Set Member Module (WSMB)
- Row Switch Module with Planter
- Output Module
- Remote Test Switch
- Implement Lift Switch

#### WSMT2

The Working Set Master Module (WSMT2) houses the system's primary interface device. All system parameters, constants, and memory are stored in the WSMT2 and controls the application of material by interfacing with proportional hydraulic valves and feedback sensors.

WSMT2 modules are available for different implement applications, including sprayers, fertilizer spreaders, anhydrous bars, planters/grain drills, and air carts.

#### **TECU**

The Tractor Electronic Control Unit (TECU) manages the power on the CAN BUS and accessory sensor inputs connected to the tractor cab harness, such as ground speed.

#### **WSMB**

The Working Set Member Module (WSMB) is an auxiliary to the Working Set Master Module (WSMT2) and provides inputs from seed sensors for additional row monitoring. Each WSMB can accept up to 18 rows of seed sensors and passes information directly to the WSMT2. Up to 10 WSMB's can be installed virtually anywhere on the implement to monitor up to 196 rows.





The IntelliAg Planter/Drill System (PDC) provides planter monitoring and control of seeds being placed in soil by each row unit, including counting seeds planted per acre, inches between seeds and average population.

#### The system provides:

- Planter monitor functionality (max. 196 rows)
- 4 independent control channels for:
- Grain drill seeding (lbs./acre)
- per acre and ease of use to set the desired target material rate and go
- increase or decrease the population as
- Manual population rate changes from the
- with accessory implement sensors including 2 hopper level, 2 air pressure, 2 shaft RPM,
- Auto-row shutoff control that utilizes Tru Count

The IntelliAg Planter/Drill System can be connected with an ISO-compliant virtual



#### **Row Shutoff Module**

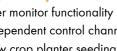
Row Shutoff Module is used to provide physical in-cab switching for manual on/off control of row section 1-6.



Air Pressure Sensor measures air pressure in the seed hopper.

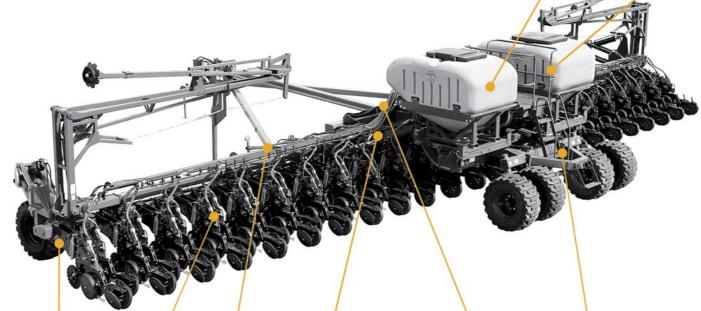


Hopper Level Sensor alerts when seed or granular material reaches a low level in the hopper.



- Row crop planter seeding (seeds/acre)
- Liquid spraying (gal./acre)
- Granular fertilizer (lbs./acre)
- Control over the number of seeds planted
- Prescription variable rate flexibility to you drive through the field
- cab or by using prescription application rates loaded into the IntelliAg from your computer
- Monitoring of 16 seed sensors along 1 ground speed sensor, and 1 lift switch
- Clutches (24 rows)

terminal already in your tractor.





#### Rate Sensor

Application Rate Sensors measure shaft rotation speed.

**High Rate Seed Sensor** 

High Rate Seed Sensor delivers

improved population counts and is capable of detecting

small seeds like milo,

beets and cotton.

#### **HD 4180 Hydraulic** Motor/Control

Automatically adjusts planter and fertilizer rates



WSMB processes up to 18 seed

sensor inputs and communicates

them to the control module. An

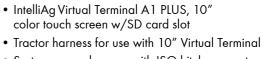
accessory module is required for planters larger than 16 rows.

#### WSMT2-PDC

WSMT2-PDC processes sensor inputs and communicates them to the control unit in the tractor cab.



or disables implement function and attaches to 3-point hitch or lift cylinder.



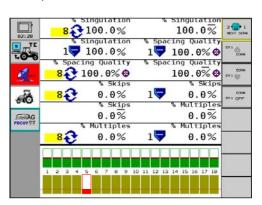
**Planter Base System** 

- System power harness with ISO hitch connector
- ISO master switch to control on/off
- Hitch extension harness
- WSMT2-PDC
- WSMT2 T harness

#### **Working Set Member** Module 2 (WSMB2)

Seed singulation and spacing quality are features available when adding a Working Set Member 2 (WSMB2) module within each seed row.

Singulation displays a percentage of seeds counted versus seeds expected. Spacing quality reflects how much spacing is occurring between each seed while planting and provides a comparison of row-to-row meter performance.



IntelliAg Work Screen displaying Seed Singulation %, Spacing Quality, Skips, and Multiples.

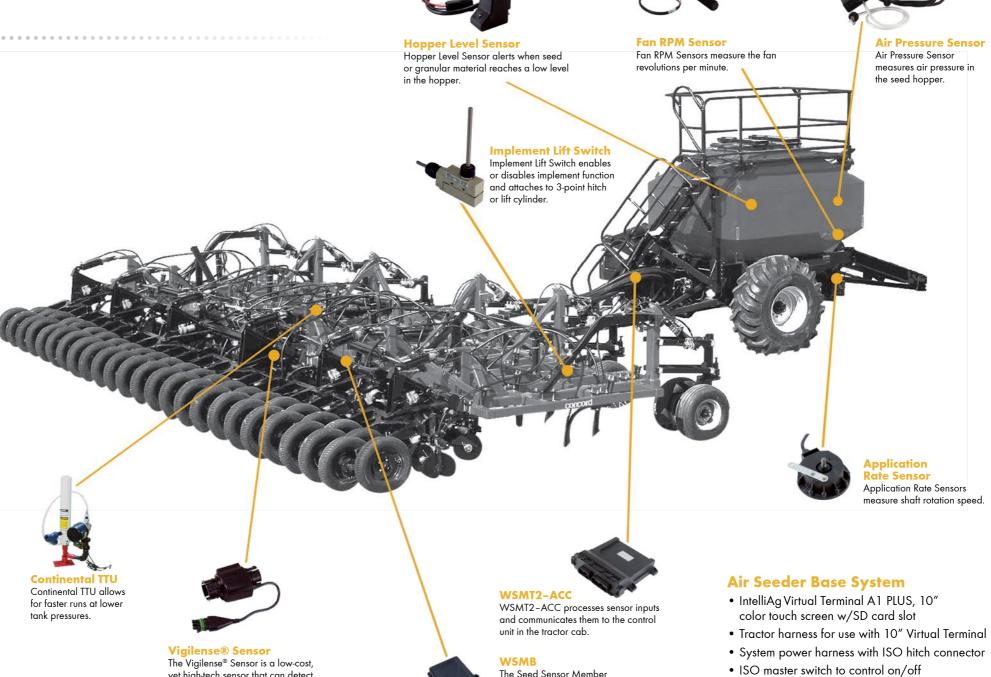


The IntelliAg Air Cart Control (ACC) System allows for full utilization of a 1 to 4 bin air cart. The system monitors seed or fertilizer traveling through the air system to ensure the material is getting to the soil and is not being trapped in a hose.

#### The system provides:

- Planter monitor functionality (max. 216 rows)
- 5 independent control channels for:
- Air cart seeding (lbs./acre)
- Grain drill seeding (lbs./acre)
- Liquid spraying (gal./acre)
- Granular fertilizer (lbs./acre)
- Anhydrous ammonia (lbs./acre)
- Control over the pounds of seed, fertilizer or NH<sub>3</sub> that are applied per acre by each air cart bin independently to set a desired target material rate and go
- Prescription variable rate flexibility to increase or decrease the rate of each bin as you drive through the field
- Manual population rate changes from the cab or by using prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- Monitoring of accessory implement sensors including 5 hopper level, 4 air pressure, 4 shaft RPM, 1 ground speed sensor, and 1 lift switch
- Control of fertilizer in strip till applications with

The IntelliAg Air Cart Control System can be connected with an ISO-compliant virtual terminal already in your tractor.



yet high-tech 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 mounted for this condition simultaneously.

The Seed Sensor Member Module processes a maximum of 216 rows of seed flow monitoring (12 modules). An accessory module is required for processing 18 seed sensor inputs for communication to the control module.

- Hitch extension harness
- WSMT2-ACC
- WSMT2 T harness
- Control harness for connection to valves and feedback sensors

### **ANHYDROUS**

The IntelliAg Anhydrous (NH<sub>3</sub>) Control System provides automatic ground speed control for the application of anhydrous ammonia only.

#### The system provides:

- Up to 2 independent channels of anhydrous ammonia control and allows large tool bars to be split in half and vary the rate of each section while traveling through a field.
- Control of the pounds per acre of anhydrous ammonia applied when a DICKEY-john anhydrous cooling system is paired with an anhydrous tool bar
- Flexibility to increase or decrease the rates of each material being applied on the go by setting a desired target material rate
- Manual rate changes from the cab or using automatic prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- Capable of six sections of auto swath control
- Visual readout and display of important application information such as pounds per hour, flow rate of anhydrous, total pounds of NH<sub>3</sub> applied, current NH<sub>3</sub> tank level, along with field area covered
- The capability to log as-applied data and generate an as-covered map

The IntelliAg Anhydrous Control System can be connected with an ISO-compliant virtual Terminal already in your tractor.



#### **Boom Shutoff Module**

Boom Shutoff Module is used to provide physical in-cab switching for manual on/off control of boom sections 1-6.



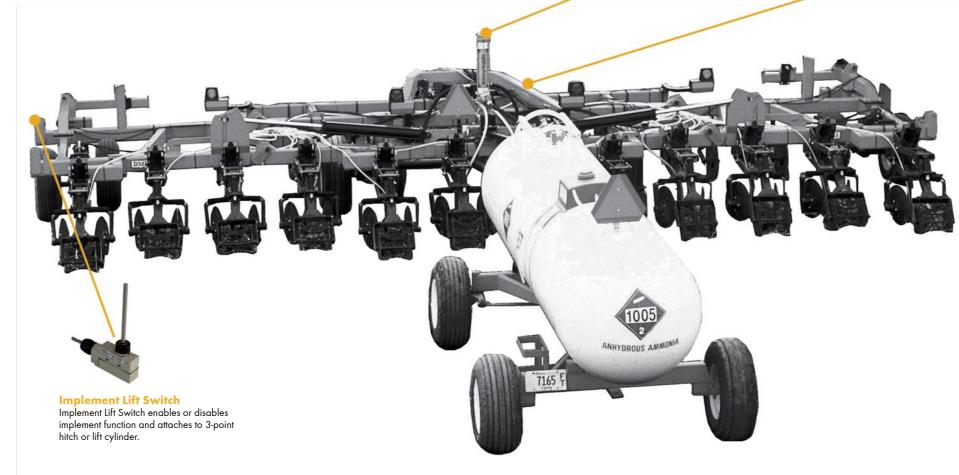
#### Continental TTU

Continental TTU allows for faster runs at lower tank pressures.



#### WSMT2-N

WSMT2-NH<sub>3</sub> processes sensor inputs and communicates them to the control unit in the tractor cab.



#### **Anhydrous Base System**

- IntelliAg Virtual Terminal AI 120, 10" color touch screen w/SD card slot
- Tractor harness for use with 10" Virtual Terminal
- System power harness with ISO hitch connector
- ISO master switch to control on/off
- Hitch extension harness
- WSMT2-NH<sub>3</sub>
- WSMT2 T harness
- Control harness for connection to valves and feedback sensors

## **SPRAYING**

The IntelliAg Sprayer Control System (LIQIV) is designed with features tailored specifically for self-propelled and pull-behind liquid sprayers.

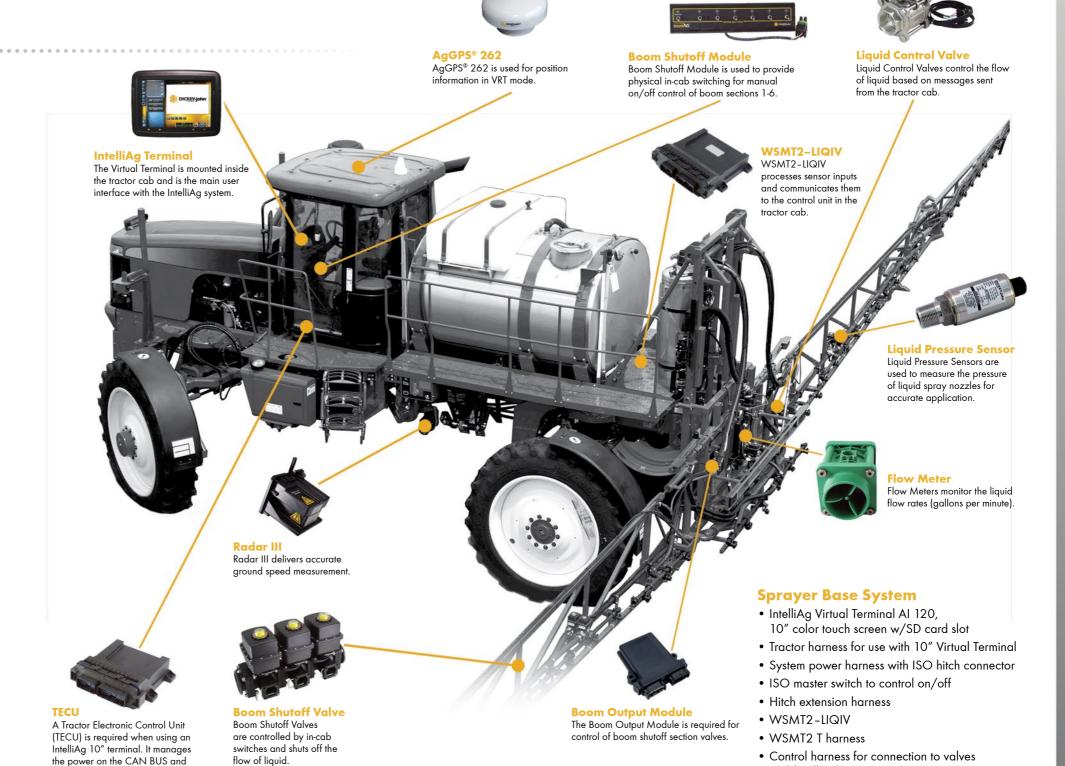
#### The system provides:

- 4 independent liquid control channels and inputs for auxiliary sensors such as liquid pressure, shaft RPM and 7 boom shutoff inputs
- Monitor up to 7 boom shutoff inputs, 2 shaft RPM sensors and 4 liquid pressure sensors
- Flexibility to use either pressure sensor or flow meter feedback of liquid flow rate
- Compatible with a wide range of liquid servo control valves or hydraulic control valves, and electric driven pumps.
- Simply set the desired target material rate and go
- Capable of six sections of auto section control
- Prescription variable rate flexibility to automatically increase or decrease the rates of each material being applied as you drive through the field
- Manual rate changes from the cab or by using prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- The capability to log as-applied data and generate an as-covered map

accessory sensor inputs connected

to the tractor cab harness, such

as ground speed.

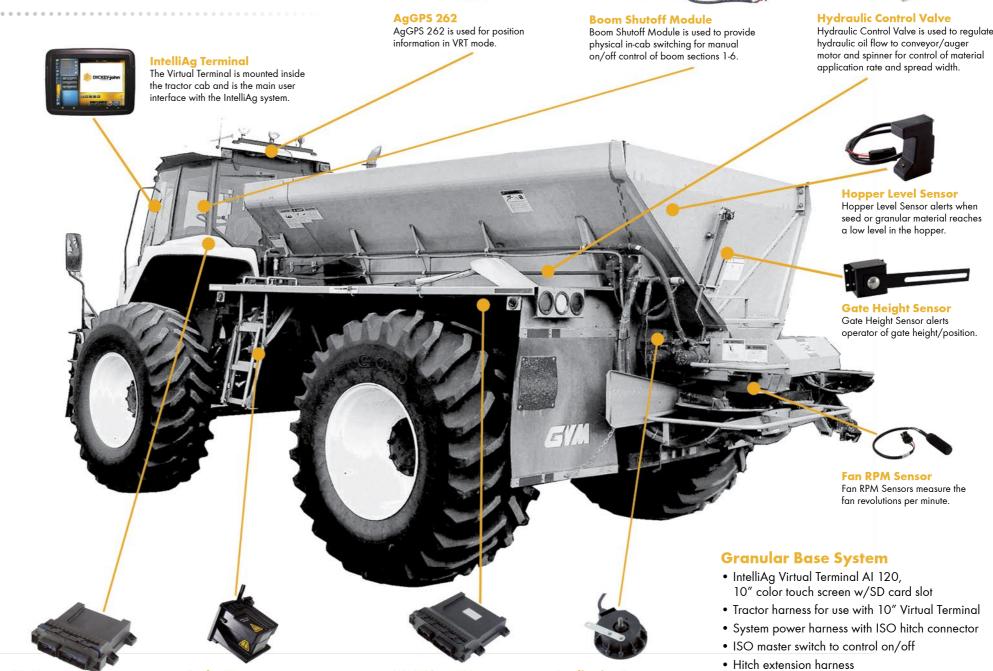


and feedback sensors

The IntelliAg Granular Spreader Control System (GCIV) is designed with features tailored specifically for self-propelled and pull-behind granular spreaders.

#### The system provides:

- 4 channels of granular control and inputs for auxiliary sensors such as hopper level, shaft RPM, gate height, and 5 air boom shutoff inputs
- Monitoring of 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, servo-drive hydraulic control valves, and electric motor drives are controlled by the granular controller to maintain the desired application rate.
- Simply set the desired target material rate and go
- Prescription variable rate flexibility to increase or decrease the rates of each material being applied as you drive through the field
- Manual rate changes from the cab or by using prescription application rates loaded into the IntelliAg from a prescription farming VRT map
- A spinner or spread control feature to allow adjustment of the spread width from the cab for conventional V-Box spreaders
- The capability to log as-applied data and generate an as-covered map
- Monitoring of up to 5 boom shutoff inputs, 2 shaft RPM sensors, 2 bin level sensors, and 4 gate height sensors



A Tractor Electronic Control Unit (TECU) is required when using an IntelliAg 10" terminal. It manages the power on the CAN BUS and accessory sensor inputs connected to the tractor cab harness, such as ground speed.

Radar III delivers accurate ground speed measurement. WSMT2-GCIV WSMT2-GCIV processes sensor inputs and communicates them to the control unit in the

**Application Rate Sensor** Application Rate Sensors measure

shaft rotation speed.

- 10" color touch screen w/SD card slot
- Tractor harness for use with 10" Virtual Terminal

- WSMT2-GCIV
- WSMT2 T harness
- Control harness for connection to valves and feedback sensors

# **AS APPLIED**

An As-Applied job can be started quickly to record as-applied data. Several features are available when creating an As-Applied job.

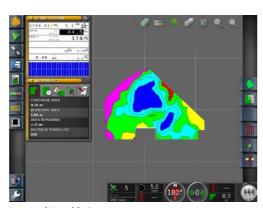
#### Features include:

- Creating a field boundary
- Creating exclusion zones
- Creating flag points to mark field obstacles
- Creating headlands
- Using boundary offsets
- Exporting job as a .pdf to a job report

Variable rate control job data is created using a farm management software tool and is imported to the terminal via a USB memory device. Automatic rate adjustment occurs when entering different zones in the prescription map.



Al 120 Guidance Screen



Imported Variable Rate Map

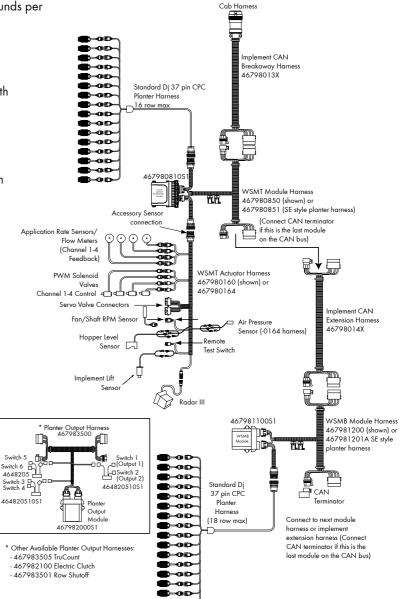
## **SYSTEM DIAGRAM**

#### Planter/Grain Drill Control Module

4 control channels can be set for planter seeding (seeds per acre), liquid spray (gallons per acre), or granular fertilizer (pounds per acre) application.

#### **Accepts inputs from:**

- 1 Hopper level sensor
- 1 RPM or 2 air pressure sensors with 11001-0164 accessory harness
- 1 implement lift switch
- 1 Ground speed sensor
- 16 Seed sensors
- Optional Working Set Member can accept additional seed sensors
- Optional Working Set Member output modules can be connected



# **WORLD LEADER**

### **AGRICULTURE PRECISION**

When you take a need, add inspired ingenuity and develop the result with unsurpassed quality, you get market-leading technology in the Agriculture Industry

#### **Market-Leading Technology:**

- DICKEY-john developed the ag industry's first successful planter monitor
- DICKEY-john was one of the industry's first to be ISO 9001: 2008 quality certified
- DICKEY-john was the first to offer a complete precision agriculture package with IntelliAg and Trimble AgGPS AutoSteering
- DICKEY-john offers the award-winning handheld moisture tester mini GAC® - that uses the same technology as the U.S. federal standard

Customers on six continents depend on our precision products to perform in the most rugged environments. In-house manufacturing and an on-site engineering team help us maintain that DICKEY-john standard of quality.

When you buy DICKEY-john, you're making an investment in the future of your operation. Because DICKEY-john products solve not only today's needs but also tomorrow's challenges.

