

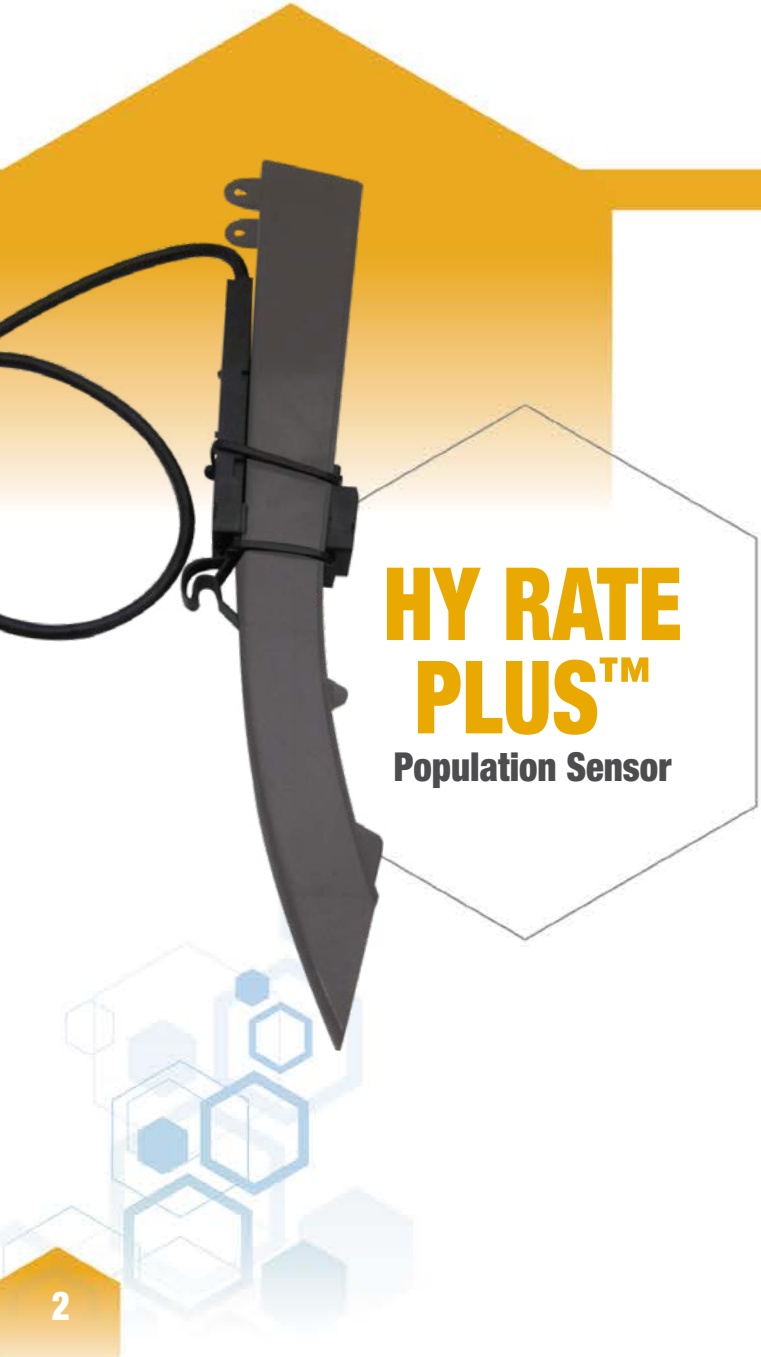
ADVANCED SOLUTIONS FOR PRECISION AGRICULTURE TECHNOLOGY



DICKEY-john®
A DIVISION OF TSI®

SENSORS

DICKEY-john® has been a leading provider of high-quality agricultural equipment sensors for over 50 years, recognized for their reliability and precision worldwide. Our line of sensors equips a range of machinery, ensuring accurate data collection. The product line includes seed sensors, blockage sensors, speed sensors, hopper sensors, and application rate sensors designed for use on diverse machines such as tractors, planters, seeders, drills, sprayers, and spreaders.



Population Sensors

The Hy Rate Plus™ Population Sensor is the sensor of choice for all planting conditions and seed types regardless of size and shape.

Features and Benefits:

- 10 LED sensor to help eliminate gaps where small seeds may not be detected
- Built in adaptive algorithms to help sensor accurately count multiple seed sizes including small seeds such as canola, sugar beets, and vegetable seeds
- Accurately monitors seeding rates between 1–135 seeds/sec across multiple seed types
- Ability to distinguish doubles, triples and quad seed drops to maintain accurate population count
- Compensates for dust and debris that can be blown up the seed tube on windy days



HY RATE™ Population Sensor

The Hy Rate™ Population Sensor is a robust seed sensor for medium-large seed types and applications.

Features and Benefits:

- 3 LED sensor for accurate seed/material detection
- Accurately monitors seeding rates between 1–135 seeds/sec across multiple seed types
- Multiple mounting options for planter seed tubes, delivery hoses or specialty planters
- Population blockage detection
- Easy installation

Additional Population Sensors

Sure Rate Seed Sensor

The Sure Rate Population Seed Sensor is a robust economical sensor that utilizes common harnessing used on a variety of systems and machines.

UniRate Population Sensor

The UniRate Population Sensor is a cost-effective solution that accurately counts larger seed types while planting and offers a very flexible mounting ability for custom applications and machines.

Blockage Sensors

Daisy Chain Blockage System

The Daisy Chain Blockage Sensor makes detecting seed blockage simple. This system monitors seed and fertilizer flow on air seeders, air drills, planters, and grain drills and alerts of blocked or faulty sensors.

Features and Benefits:

- Ability to manage up to 4 modules per system
- Each module can monitor up to 108 blockage sensors, split between 2 loops of 54 sensors each
- Eliminates complex harnessing and offers easy installation with interconnected, daisy-chained wired sensors
- Serial based sensor communication

Vigilense™ Blockage System

The Vigilense™ Blockage Sensor detects flow rates and blockages of seeds and granules on a number of applications such as air seeders, air drills, planters, and grain drills.

Features and Benefits:

- Sensor output provides material flow indication levels to ensure even product application
- Detects partial and full blockages on multiple seeds/materials
- Available with or without stainless steel inserts for specific applications
- Works with a wide variety of monitors and controllers

Additional Blockage Sensors

Recon Flow

The Recon Flow sensor is an efficient solution for seed blockage detection on box drills or air drills.

Hy Rate Grain Drill

The Hy Rate Grain Drill is the ideal seed population sensor for gravity drop drills designed for larger seed types.

Speed Sensors

The Radar III Speed Sensor, an evolved version of DICKEY-john's Radar II, builds on the success of its foundational technology, providing a more compact and enhanced solution for measuring ground speed.

Features and Benefits:

- Easy to install
- High-tech planar array for the truest velocity measurement possible
- Views ground surface for accurate ground speed detection
- Compact and rugged design

Radar II Speed Sensor

The Radar II Speed Sensor assists your operation in achieving top performance from your electronic monitoring and controlling products.

Features and Benefits:

- Easy to install
- Views actual ground surface for accurate speed measurement
- Can be mounted to look forward or backward from vehicle

Additional Speed Sensors

Universal Speed Sensor

The Universal Speed Sensor provides durable, cost-effective ground speed detection consisting of magnets positioned on the front wheel rim and a pick-up assembly secured to the front axle to capture wheel rotation speed.

Hall Effect Speed Sensor

The Hall Effect Sensor is designed for rugged agriculture environments and detects ground speed based on gear-tooth, sprocket and lug nut movement.

Radar III Speed Sensor





Application Rate Sensor



Other Sensors

The Application Rate Sensor monitors the speed of rotating shafts in your equipment based on the number of pulses being emitted to provide the most accurate response in control and monitoring systems.

Features and Benefits:

- Flexible installation options
- Rugged design
- Two model options:
 - 180 pulse signals per revolution
 - 360 pulses per revolution

Hopper Level Sensor

The Hopper Level Sensor alerts the equipment operator of when the hopper is running low on material.

Features and Benefits:

- Mounts inside planter, drill, or air cart
- Alerts when seed or granular material reaches low level
- Gives hopper level warning before hopper is completely empty



Air Pressure Sensor

The Air Pressure Sensor provides confidence that the seed is flowing properly in fertilizer or seed bins.

Features and Benefits:

- Ability to measure both positive pressure and vacuum
- Can be used in addition to a bin level detection sensor
- Can be installed inside or outside of bin



CONTROL SYSTEMS

To optimize yields at harvest, you need to ensure you are maximizing performance at planting. Real-time DICKEY-john® monitors, sensors, and control systems helps you apply the proper seed and fertilizer in the right spot at the right rates to maintain top end yield potential. As a result, you'll significantly reduce the chances of skips and doubles, avoid wasted inputs, and generate robust yield potential that maximize your production and net returns. We offer solutions for operations of all sizes, enabling real-time monitoring or control of up to dozens of rows with precision. Whether you are adding a simple monitor system or taking your equipment to multi-product variable rate application and section control, DICKEY-john® has the components to bring your equipment to the next level of performance.

IntelliAg™ ISO6



The IntelliAg™ ISO6 is a complete control system for applying seed, liquids, and granules in a wide variety of applications. The ISOBUS certified module can be installed on planters, air seeders, spreaders, and drills to provide growers with the precision technology to make their operations more efficient and more profitable.

Features and Benefits:

- Advanced tramline support
- Electronic drive individual row control
- ISOBUS plug-and-play ready
- Apply multiple products with 1 module
- Multi-product section control
- Variable Rate Product Application
- Implement Folding
- AEF certified
- 8 Channel ISOBUS monitor and control system



PLANTER AND SEEDER MONITORING

DICKEY-john® offers a complete line of monitors to help equip machines with cutting edge electronics to help you see multiple aspects of your equipment from the seat of your very own tractor. Knowing that your machines are performing properly, ensures you are optimizing yield potential and profitability by making sure planting rates, planting quality, and other critical parameters are on target. Knowing when an issue comes up on the machine can be identified quickly and easily so it can be corrected immediately. Pairing Dickey-john® monitors with Dickey-john® population and blockage sensors allows you to have the best combination possible on your equipment. Different levels of monitors will ensure the correct features are utilized for your specific equipment all the way from simple planting/no planting type monitors up to ISOBUS compatible monitors.

PM400 Planter Monitors



The PM400 planter monitor is the ideal choice for large-scale operations. With capabilities of monitoring up to 36 rows, the PM400 monitors seed and fertilizer flow with unmatched precision.

- Features and Benefits:**
- Monitor up to 36 rows
 - Monitor ground speed, hopper levels and fan/shift rotation
 - Automatic sensor detect

PM300 Planter Monitors



The PM300 Planter Monitor allows you to monitor your seed and fertilizer application while delivering accurate ground speed measurement.

- Features and Benefits:**
- Monitor up to 16 Rows (32 rows for the PM332 model)
 - Monitor ground speed, hopper levels and fan/shaft rotation
 - Automatic Sensor Detect

PM100/PM100E Planter Monitors



The PM100 and PM100E seed flow monitoring systems allow you to optimize your seed planting process. By monitoring the seed flow, the PM100 and PM100E help to reduce skips and misses in seeds with light-up LED indicator sensors.

- Features and Benefits:**
- Monitoring of 1-16 rows (PM100) and 1-8 rows (PM100E)
 - Simple LED to indicate seed flow or no seed flow
 - Alarms in event of no seeding

IntelliAg™ IS06



The IntelliAg™ IS06 is a complete ISOBUS monitoring system for tracking seed population, material blockages, and complete machine operation. Monitor critical planting functions such as skips/doubles detection, spacing, quality data, shaft speeds, application rates, and much more can all be done with a single module to help get the best performance out of your equipment.

- Features and Benefits:**
- ISOBUS plug-and-play ready
 - AEF tested and certified
 - Monitor Population, Skips, Doubles, Spacing Data
 - Monitor Application Rate
 - Map application rates
 - Monitor Hoppers, Pressures, Shaft RPM's
 - Can support up to 120 rows

DJ ASMII Air Seeder Monitors



The Dj Air Seeder Monitor (Dj ASMII) provides accurate blockage and low-cost monitoring of up to 128 rows and 8 hopper levels.

- Features and Benefits:**
- 128 row maximum monitoring capability
 - 8 ASM II module scanning capability
 - 16 row or 15 row and 1 hopper level sensor display capability per ASM II Module
 - Implement lift switch input
 - 16 row indicators

ACCESSORY EQUIPMENT

DICKEY-john® offers a complete line of accessories for your precision ag monitoring and control systems to fit your exact needs. We offer a number of hydraulic flow control valves, liquid control valves, switches, and flow meters, allowing your systems to function at its optimum level. Pairing these components with DICKY-john's monitoring and control systems allows customers and original equipment manufacturers to upfit their machines with a complete system. Whether you are managing product application or performing product section control, DICKY-john® has the equipment to meet your needs.

PWM Hydraulic Drive Motor

The HD 4180 is a combination hydraulic motor and proportional hydraulic valve intended for use on planters and air seeders to rotate the seeding shafts, instead of using ground-driven gear boxes.

Implement Lift Switch

The Implement Lift Switch enables or disables implement function.

Flow Meters

Flow meters provide accurate measurement of liquid products to ensure correct product application. Available in a variety of flow rates and sizes.

Hydraulic Flow Control Valves

The DICKY-john® Servo Hydraulic Control Valves provides precise oil flow control to hydraulic driven conveyors, motors, and liquid pumps.

BACKED BY THE POWER OF DICKY-john®

At DICKY-john®, we take pride in being a solutions-driven company with answers to fit your precision farming needs. We seamlessly integrate reliable sensing technologies, advanced control systems, and an extensive range of accessories to not only redefine but expand the horizon of precision agriculture. For over half a century, DICKY-john® has been delivering state-of-the-art solutions that empower farmers to optimize their operations. Explore the future of farming with DICKY-john, where every innovation is a step towards enhanced productivity, sustainability, and success in the field.