

A man in a green jacket and cap is looking at a tablet. The background shows several large grain silos and a tall tower structure. The scene is overlaid with a red diagonal band and a white dotted pattern.

BINMASTER

Digitize Agriculture Inventory

BinMaster helps ag cooperatives, millers, farmers, and agronomy companies affordably automate grain, seed, feed, fertilizer, and chemical inventory. Whether it's managing multiple vessels or sites, projecting future orders, optimizing storage capacity, or ensuring the availability of essential ingredients, BinMaster will make your job easier and safer.

BinMaster.com | 1-800-278-4241

A HOLISTIC APPROACH TO

BIN, SILO, AND TANK INVENTORY

Manage Inventory of Agricultural Products

Keeping up with the global demand for food is a constant challenge. You need accurate data if your business is growing, storing, selling, or processing the harvest.

Scale to Any Size Operation

BinMaster inventory systems help you manage inventory precisely for one bin or a global operation. Continuously monitor inventory and report in real-time to maximize profits when buying or selling.

Create a Safer Workplace

Eliminate the need for climbing ladders or onto bin roofs to routinely check bin levels. This reduces the risk of accidents and helps avoid falls and injuries. For dusty environment, many sensors are offered with explosion-proof certifications.

Remote & On-Site Monitoring

A group of bins down the road, multiple locations of a cooperative, a lagoon in a field ... BinMaster can connect remote locations using wireless and IoT solutions connected to cloud software.



SOLUTIONS FOR EVERY ASPECT

Grain Storage

Dust-defying radar sensors measure bin levels continuously. **3D level scanners** measure and map uneven topography in wide-diameter bins with multiple filling and emptying points.



Agronomy

Compact radar level sensors are ideal for measuring chemicals, fertilizers, and soil nutrients. Levels of liquids or solids are updated continuously, so you always know what you have on hand.



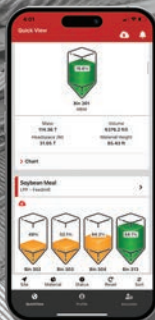
Milling & Pet Food

Feed and flour mills require sensors that measure accurately despite heavy dust. An **80 GHz radar** is extremely fast and accurate to ensure continuous processing and batch control. Compact radars are ideal for ingredient bins for pet food and livestock feed manufacturers.



Ag Cooperatives

Measure any commodity with a BinMaster system. Grain, seed, feed, fertilizer, fuels ... any bulk material solid or liquid that's in a bin, tank, or silo can be continuously measured.



SETTING YOU UP FOR SUCCESS

How BinMaster Benefits Agriculture



Accounting & Finance

BinMaster's end-of-period reports provide accurate inventory valuation, allowing you to make informed financial decisions.



Purchasing

With automated usage reports and trendlines, you can project future orders and ensure you have the right amount of inventory on hand.



Storage

Optimization is crucial during harvest season. BinMaster's solutions help you fully utilize storage capacity and avoid costly overflows.



Manufacturing

Have the right ingredients in stock for smooth milling, feed, or agronomy operations. Ensure materials are available, preventing any disruptions in production.



Drivers

A quick look at the BinCloud app on a phone on a walk-up push button display console lets drivers know which bins are full and which have remaining capacity.

BinMaster Makes Commodity Management Easier



Putting Safety First

People are the core of agriculture. BinMaster sensors and software focus on automating tasks to reduce the risk of injury associated with climbing or entering bins.



Hedging in Volatile Markets

Commodity prices and availability can fluctuate. BinMaster tools help you buy and sell when the time is right and can profoundly impact profitability and margins.



Preventing Product Shortages

Running out of a single ingredient can shut down a feed blending or agronomy operation. BinMaster helps you avoid shortages of material and out-of-stock situations.



Automated Compliance Reporting

Generate USDA and governmental reports quickly and simply. You will know the data is timely and accurate, ensuring compliance with regulations.



Vendor Managed Inventory

BinCloud lets you provide controlled access to suppliers so they can plan to have what you need in stock. Establish reorder thresholds and place orders.

AG EQUIPMENT MONITORING

Companies in the agriculture industry face unique, and critical, challenges. Companies in the industry must adapt to ever-changing weather, commodity prices, international markets, and regulatory requirements.

Power Conveyors On or Off

Use level sensors and point-level indicators to:

- Detect empty or overloaded conveyors
- Minimize unplanned downtime, avoid costly repairs



Level & Clog Alert

Point-level switch and flow detection device provide:

- Notification of levels, empty or clogged grain legs
- Alert to plugs or empty conditions in material handling systems

Batch or Flow Control

Reduce waste with software & sensors that help:

- Ensure flow has stopped to prevent cross-contamination
- Confirm an ingredient is flowing for proper batch control



Truck & Railcar Scheduling

Improve logistics and increase productivity:

- Know how many loads of grain are on hand
- Optimize scheduling of deliveries and drivers

Flow Detect 2000



The FD-2000 is a compact solids flow detector that uses Doppler technology to alert to flow or no flow conditions. You can use this flow detection switch to:

- Prevent downtime caused by material blockages or conveyors running empty
- Alert to loose or open slide gates causing material loss or cross-contamination
- As a preventive control for FSMA, USDA, or FDA compliance
- To ensure flow of grains, granules, pellets, meals, and powdered materials
- Confirm there is no flow through a distributor before switching bins
- Improve batch control by ensuring flow completely stops when it should

CONTINUOUS LEVEL SENSORS

For real-time inventory monitoring, sensors that measure continuously as vessels are filling or emptying are essential.



SmartBob

This electro-mechanical sensor works like an automated tape measure, dropping a weighted cable to a material surface at timed intervals. SmartBob measures at timed intervals, such as one an hour or once a day as set by the user.

Laser

BinMaster's FVL-200 battery-operated laser level sensor is designed for feed bins up to 35' tall. It is ideal for low-dust materials and operations where feed bins are not wired for power. These sensors measure at timed intervals such as hourly or daily to conserve battery power.



Non-Contact Radar

The NCR-86 is a fast-updating 80 GHz level sensor for the tallest, most challenging level measurement applications up to 393 feet. It excels in solids and liquids, including fertilizer, liquified feed, and fat.



3D Level Scanner

Non-contact, acoustic technology ideal for bins where solid materials like grain or powdered material like flour pile unevenly. It measures and maps multiple points on the material surface and creates a 3D image. Detects sidewall buildup, cone up or down and accounts for surface irregularities when calculating volume.



Compact Radar

The NCR-86 is a fast-updating 80 GHz level sensor for the tallest, most challenging level measurement applications up to 393 feet. It excels in solids and liquids, including fertilizer, liquified feed, and fat.

BinMaster Makes
Installation Easier.

Reduce the cost and complexity of installing your grain bin inventory system. We offer compact devices that reduce wiring and the need for outside electricians. Our gateways, transceivers, expansion hubs, and HART modules are affordable and compatible with a wide range of BinMaster level sensors.

SOFTWARE THAT SOLVES PROBLEMS



BinMaster agricultural inventory software provides a range of tools to tackle farm-to-table and livestock challenges effectively. BinCloud® software was designed to simplify commodity management, so you can easily and confidentially deal with weather, prices, markets, and regulations.

Pain Relief For Inventory & Logistics

- Any grain, seed, feed, fertilizer, fuel, or chemical
- Monitor inventory for every vessel at one or every site
- Push-button reports exported to excel or PDF
- Reporting truckload capacity remaining in a bin or tank

Ag Workers Benefit From AgriView

- Any grain, seed, feed, fertilizer, fuel, or chemical
- Monitor inventory for every vessel at one or every site
- Push-button reports exported to excel or PDF
- Reporting truckload capacity remaining in a bin or tank

Tailored to Agricultural Customers

BINVIEW®

Any storage or processing facility that wants inventory to be up-to-date and accurate, with everyone sharing the same information and reporting.

AGRIVIEW®

A farm-to-table bulk inventory solution for anyone managing large volumes of liquid or solid material stored in any type or size of bin, tank, or silo.

FEEDVIEW®

This feed management solution uses wireless, battery-powered level sensors for livestock operations without wiring access or power on feed silos.

PITVIEW®

A pit and lagoon monitoring system to save CAFOs (confined animal feeding operations) time as they comply with state and federal reporting and regulations.

POINT LEVEL SENSORS

A point level switch or indicator alerts when stored solids contact the instrument. The switch is wired to an alarm, light, or control panel to alert of a high or low level or to start or stop a process.



Rotary

The BMRX-100 and BMRX-200 are the most popular bin indicators. They are widely used in grain bins from small farms to large ports. They are dependable, affordable, and easy to install. Rotaries are also available with extensions to use as a high-level alert in bins in tandem with a continuously level sensor as a safeguard against overfills.



Fail-Safe Rotary

BinMaster's BMRX-300 is a smart rotary with true fail-safe operation and a built-in LED indicator light. The bright LED changes from green to red when the paddle stops turning when the bin is full or empty. Self-diagnostics and immediate and corrective responses to failures distinguish the BMRX-300 as the best rotary for process control.



Capacitance Probe

Capacitive sensors are used for general level detection of feed, grain, fertilizers, and feed ingredients. A capacitive relay sensor is typically used as a level alert in tanks, silos, and containers during the processing, emptying, or filling process to prevent dry runs and overfills. By providing precise and reliable measurements, they improve the accuracy and efficiency of ag operations.

Capacitance probes are used to monitor water levels in irrigation tanks and solid or liquid ingredients in storage or ag chemical tanks. BinMaster offers 3A, Teflon®, bendable, and flush-mounted probes to meet the needs of dairy, pet, and livestock food producers. A mini capacitance probe can be ideal for small vessels or sanitary processing operations.



Vibrating Rod

A vibrating probe point level sensor is used for high and low-level indication, in hoppers, or for plugged chute detection. This type of level switch is used in low dielectric or extremely light, fluffy powders and flakes with bulk densities as low as 1.25 lb./ft.³. In agriculture, vibrating probes are applied at feed mills or pet food processors in vessels storing exceptionally light materials.



Tilt Switch

A tilt switch alerts to rising levels of solid material, such as grain, with a bulk density of at least 15 lb./ft.³. BinMaster's electromechanical tilt sensors work by activating a relay switch when the device is tilted 15 degrees by material accumulating below it. In agriculture, a tilt switch is commonly used for high-level detection in silos, over conveyor belts to protect against overloading, over grain piles, manure pits, or for plugged chute detection.