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FeedCast

The FeedCast Inventory Control System is a wireless, solar powered solution that monitors feed bin inventory, and delivers precise data and actionable metrics to help more efficiently allocate resources in the feed supply chain.

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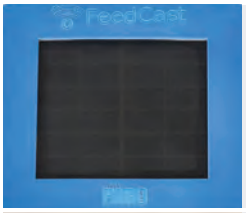
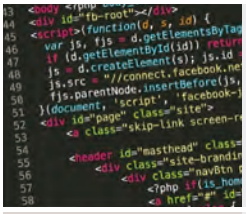
A Wireless Solution to Eliminate Feed Outs, Reduce Over Delivery

For producers, integrators and feed mills, the feed supply chain must be carefully balanced in order to eliminate out-of-feed events, reduce over deliveries and preemptively solve any scheduling conflicts. Feed silo inventory systems have historically been cumbersome to install, and due to their susceptibility to lighting, often require repair or replacement.

FeedCast offers a unique, non-intrusive solution to proactively monitor feed inventory in order to provide actionable metrics that streamline the feed supply chain. The system's solar-powered design, backup internal battery and Wi-Fi-based communication eliminates the need to run electricity to the feed bin, making it insusceptible to lightning. Its magnetic, wireless construction simplifies installation, bringing the average install time down to 20 minutes per bin.

The system collects the latest inventory readings and transmits them to a cloud-based web portal–providing real-time feed consumption information to help track progress, make predictions and minimize feed pick up at the end of the growout.

	FEEDCAST FEATURES	BENEFITS
	Transducer creates vibration profile, which is detected by accelerometer nodes and correlated by the control	The vibration signature produced by the feed inside the bin defines inventory levels in pounds of feed in the bin and as a percentage of the bin capacity.
	Magnetic-based installation All system components external to bin	Average installation time is 20 minutes with no bin modifications necessary and no special tools required.
	Solar-powered design with internal backup battery	Eliminates need to run wires or electricity Insusceptible to lightning
	Short-range wireless allows bins to communicate with each other and transmit to the data hub for upload to the cloud through cellular gateway. Data is then aggregated in a cloud-based central database repository.	Data is always accessible by API or web portal. Real-time feed inventory monitoring allows for delivery confirmation, conversion data and consumption predictions.
	Scheduled reports or alerts can be sent by email or text.	Automate operations and help discover potential issues with your feeding system (e.g. clogged auger, unopened bin) before they affect growth.
	Custom Application Programming Interface (API)	Enables seamless integration into your internal processes and systems for more actionable data.
	Generated reports show inventory, feed rates and overall bird progress.	Eliminate feed outs, monitor growth performance and plan future deliveries to minimize truck dispatch.
	System software upgrades are installed remotely.	No onsite visits necessary for simplified maintenance, low cost of ownership.
	Hardware components are designed to be plug and play. System sends alerts if hardware failure is detected. System wide health check performed with each feed bin inventory read.	System is proactively reviewed, service technician dispatched with new component for minimal downtime.

THE PROCESS

FeedCast uses a patent pending vibration method, rather than a weight scale, to accurately determine the level of feed in a bin.

THE DATA FROM EACH BIN IS WIRELESSLY TRANSMITTED TO THE FARM'S CELLULAR GATEWAY, THEN RELAYED TO CLOUD STORAGE.

TRANSDUCER GENERATES A 3-4 SECOND VIBRATION PROFILE.

UPON COMPLETION, THE MAIN CONTROL UNIT, WHICH POWERS THE SENSOR BUS, GATHERS THE DATA FROM THE NODES.

ACCELEROMETER NODES SENSE THE VIBRATION PROFILE.

DATA IS ACCESSED BY COMPUTER, MOBILE DEVICE, API OR AUTO-MATICALLY GENERATED EMAIL OR TEXT REPORTS.

** Silo pictured here and on front cover is not full size. Therefore, product as shown is not representative of its true size.*

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