

BINMASTER DISTRIBUTOR POWERS UP POULTRY MILL

A Midwest-based poultry feed mill stores numerous grains, additives, and supplements both in liquid and solid form. Bins containing materials such as liquified fat and lime that piles unevenly are some of the more challenging bins to measure. The site has bins of all shapes and sizes. Some have cone bottoms. Many of the bins are steel, but there is a large slip concrete structure housing bins containing many different materials. Process and environmental conditions are typical of most feed mills with materials prone to dust and a facility that is large and spread out.

BOB TO THE RESCUE!

The poultry operation system included the installation of over fifty SmartBob continuous level sensors. The SmartBob weight-and-cable style sensors use a “digestible bottle” as a weight, which is a plastic container filled with an edible wax. It is referred to as digestible, as if the bob should disconnect from the cable, it can run through (be digested by) the augers without damaging any equipment or contaminating any of the feedstuffs. Most of the SmartBobs are mounted on top of silos housed inside a large concrete structure. Lined up like soldiers, these level sensors are programmed to take measurements every few hours, with the option of taking an on-demand measurement when it is needed.

EASY DATA ACCESS

The poultry staff accesses inventory from Binventory® software from a computer in the office or a C-100 display console that they can walk up to for easy access at ground level. One of the benefits of the software and the console is the ability to take an immediate measurement when bins are loaded and unloaded.






SAVING ON WIRING

The mill was creative with BinMaster technology. As the mill is spread out, they used just about every configuration possible to get measurement data displayed when mill staff needed it. The WL-19D wireless radios helped to reduce the need for wiring. The majority of the SmartBob level sensors are daisy chained and viewed on the same PC located in the mill office.

LONG-TERM COMMITMENT

BinMaster distributor Wm Neundorfer & Co. makes a point to check with customers to discuss the latest advances in sensors and software.

Contributed by Wm Neundorfer & Co.

Industry	Bulk Material	Sensors	Software	Applications
 Agriculture Farming Livestock	Grain Flour Beans Fertilizer Seed Liquids Bins, silos, tanks, piles, domes	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D sensors Ultrasonic Flow detector	BinCloud BinView AgriView Binventory FeedView 3D Multivision	Prevent overflows Process control Inventory management Remote monitoring Monitor piles Flow detection Bin aeration Dust detection Aeration Ag Chemical Storage
 Bioenergy	Corn DDG Biomass Wood pellets Wood fiber Forest residue Bins, silos, tanks, piles, domes	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic Flow detector	BinCloud BinView Binventory 3D Multivision ResinView	Prevent overflows and outages Process control Inventory management Remote monitoring Flow detection Slurry tank detection Measure DDGS
 Cement	Sand Gravel Clinker Rock Powder Bins, clinker silos, tanks, piles, domes, chutes, crushers	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Plugged chute detector Airbrator Diffuser air pad	BinCloud BinView Binventory 3D Multivision CementView	Prevent overflows and outages Process control Inventory management Remote monitoring Monitor piles and bunkers Inventory domes Plugged chutes Measure crusher levels ESPs or clinker silos Prevent conveyor overloads Silo aeration
 Food processing	Brewing Foodstuffs Solids Slurries So much more... Silos, mixers, batching tanks, conveyors, pipelines	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Airbrator Diffuser air pad	BinCloud BinView AgriView Binventory 3D Multivision	Prevent overflows Inventory management Remote monitoring and VMI Process control Sanitary level measurement Detect levels in mix or slurry tank Detect levels on conveyors Flow detection Silo aeration
 Mining	Lump coal Ores Aggregates Fine alumina powder Silos, crushers, conveyors, domes	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Airbrator Diffuser air pad	BinCloud BinView Binventory 3D Multivision CementView	Inventory management Monitor piles Prevent overfills or outages Detecting plugged chutes Measuring inventory in domes Level measure in crushers or bins Prevent overloading Process tanks Remote monitoring Silo aeration Dust detection
 Plastics	Resins Flakes Powders Granules Regrind Silos, bins, containers, hoppers, tanks	Rotary level indicator Capacitance probe Vibrating rods Diaphragm switch Tilt switch Radar SmartBob 3D level scanner Ultrasonic sensor Flow detector Airbrator Diffuser air pad	BinCloud BinView ResinView Binventory 3D Multivision	Prevent silo overflow Eliminate outages Inventory management Remote monitoring Vendor managed inventory Flow detection Bin Aeration Dust Detection

