

Press Release

SMART SENSOR SEES INSIDE SMALL SILOS & TINY TANKS

While big bins need big sensors, smaller vessels are just as critical for monitoring and measuring. The food industry, water purification plants, and pharmaceutical operations often mix ingredients in smaller amounts stored in tiny tanks and small silos.

BinMaster's MCP-100 mini capacitance probe is a compact sensor for level measurement and pressure detection in water-based liquids.

"Running a brewery, we're always watching our silo with ingredients and beer," said the owner of a popular microbrewery on the Gulf Coast. "I decided on BinMaster mini capacitance probes because they are so easy to install and I can keep tabs on the levels. We also have fun with the color signals during holidays to go along with the spirit of things with our employees."

These small, but mighty sensors, include a colorful LED status display which you fully control using your phone on an app through Bluetooth. Install an MCP-100 as a low-level detector in a tank. The sensor settings can be adjusted using a phone app. Colors, blinking and other features can be completely customized for optimal operation.

Mini capacitance sensors are affordable and sanitary with options for 3A or FDA requirements.

MCP-100 sensors can measure levels for many products like:

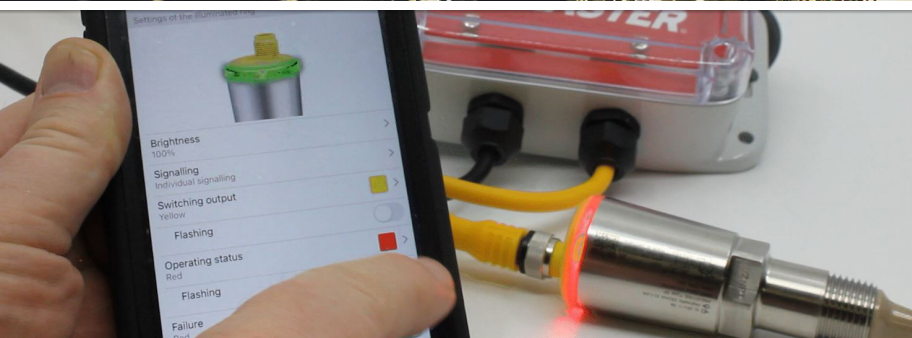
- Milk, cheese, yogurt, and other dairy products
- Purified or process water tanks
- Pressure and point-level measurement in beverage production







Features:

- Can be combined into PLCs and existing control systems in a simple manner through IO-link communication (Bluetooth)
- Colorful LED, status display with adjustable coloration
- Sanitary 1/2" NPT, 3/4 NPT and G1/2 stainless steel connectors
- Hygienic connectors. Stainless steel 316L 1/2" NPT, 3/4" NPT, and G1/2 fittings

How does a capacitance sensor work?

Capacitive probes can sense both metallic and non-metallic materials making them great for many industrial application. A capacitance probe can sense the dielectric change between the presence of air and material. What is dielectric? It is the space or pocket between surface with negative electrons and a surface with positive electrons.



Industry	Bulk Material	Sensors	Software	Applications
 <p>Agriculture Farming Livestock</p>	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
 <p>Bioenergy</p>	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
 <p>Cement</p>	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
 <p>Food processing</p>	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
 <p>Mining</p>	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
 <p>Plastics</p>	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