

MINI-CAPACITANCE probes for small application

BinMaster offers smaller capacitance probes for smaller applications. Some operators are simply seeking a visual indicator of the level of material in a tank, bin or silo. The MCP-100, 200 and 300 probes get the job done and are controlled with a nifty phone app to control color and other options.



Compact Capacitance Sensor for Solids

Reliable point level detection in a small sensor

Jeff was looking for an alternative to the proximity sensors he was using in seed storage bins. It needed to work reliably with seasonal temperature changes, use the existing fittings, and not break his budget. The MCP-200 mini-capacitance probe may be just what Jeff is looking for.

This compact sensor for light solids and powders detects when there is a change in capacitance caused by the presence or absence of material using the difference or variation between the capacitance of the sensor and the material being detected. Capacitive technology is well-suited for industrial environments where the temperature fluctuates and remains stable despite temperature changes.

This new BinMaster sensor features an IO-Link connection and wireless Bluetooth setup which makes it easy to set up and integrate into PLCs or existing control systems. It is easily programmed from a phone, tablet, or PC using Bluetooth. It is extremely versatile offering optional explosion-proof and FDA approvals and an assortment of small fittings and hygienic connectors. The MCP-200 is offered in custom configurations and is available with short lead times.

Use the MCP-200 point level detector for monitoring and process control in tanks, vessels, hoppers, or feeders or to monitor pipelines. It is useful in industries like food processing, pharmaceutical manufacturing, seed companies and agriculture or aquaculture use. It can also be used for level detection of plastics and resins, wooden materials and paper, or glass. In process control, the MCP-200 can detect when a hopper is empty to avoid outages that could lead to improper batching or undue wear on equipment.

With protection ratings of IP66/IP67 and IP69, a process temperature range of -40° to 239°F, and process pressure range of -1 to 25, it is versatile enough to install in many industrial environments. Long service life is assured with wetted part construction of stainless steel and PEEK plastic and a durable, chemical and weather-resistant FKM seal material.

Visual alerts via a colorful LED status display make it great (and exciting) for monitoring levels in bins or hoppers. Adjustable coloration gives plants the ability to customize alerts to any color on the spectrum they prefer.

Be like Jeff. Get the BinMaster MCP-200 is for low-cost level detection in light bulk solids in ordinary, sanitary, and hazardous locations. Have liquids, too? The company also offers the MCP-100 for use in tanks containing liquids.



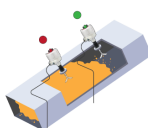
Overflow Prevention

High level alerts to avoid over-filling vessel



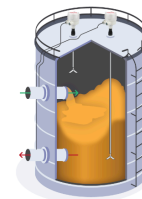
Material Outages

Low level alerts eliminate empty conditions









Plugged Chutes

Detect when chutes are clogged with material



Process Control

Switching relay to turn a process off or on

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