

The Insider

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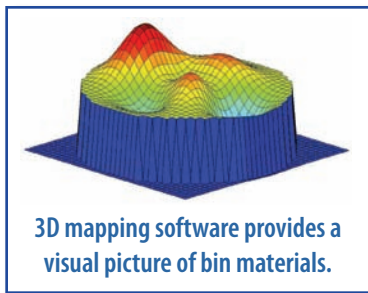


...because it's what's inside that counts

New 3DLevelScanner* Mapping Technology for Highly Accurate Measurements

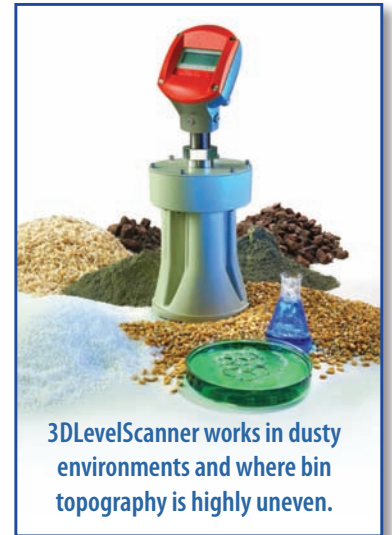
Revolutionary Non-Contact Measurement

The 3DLevelScanner uses non-contact dust penetrating technology to create a visual map of the material surface in storage and process bins. It measures the material surface at multiple points to accurately calculate the volume and mass, even in conditions where the material surface is highly irregular. The



3D mapping software provides a visual picture of bin materials.

3DLevelScanner operates at extremely low frequencies, allowing it to penetrate through high moisture and dust with very little loss of signal power. The processor obtains signals based upon the estimated times of arrival and direction of received echoes, and generates a 3-dimensional image of the surface that can be displayed on a remote screen. Whereas most technologies measure with a single point time-of-flight, the 3DLevelScanner uses both time-of-flight and direction using three independent channels to transmit and receive which enables it to make highly accurate measurements.



3DLevelScanner works in dusty environments and where bin topography is highly uneven.

What's Inside



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BINMASTER

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Operating Convenience

A single 3DLevelScanner is installed at the top of the bin and is connected via a wired or wireless connection to a PC loaded with the 3D software. The physical characteristics of the bin are loaded in the software. The image and measurements are displayed on a PC loaded with the 3DLevelManager software. Standard output signals include 4 to 20 mA, Hart, and RS-485. The supply voltage is 20 to 36 VDC.

Works in Almost Any Tank and Solid Material

The 3DLevelScanner can work in small to very large bins and can measure up to 200' tall and 150' wide. It is versatile and can accommodate a wide variety of vessels or containers including open bins, bulk storage rooms and warehouses. The 3DLevelScanner is offered in three models - 'S' for single point level measurement, 'M' which adds mapping capabilities, and 'MV' with both mapping and visualization graphics tools - for flexibility for any application and budget.

Suited for most powder or bulk solid material, it is proven to perform in coal, cement, aggregates, flyash, chemicals, fertilizers, food, grain, plastic pellets and powders. Any industry requiring accurate, non-contact measurement technology will benefit including feed, grain and seed; cement, aggregates and concrete; fertilizer; milling and food manufacturing; biofuels and ethanol; chemicals and pharmaceuticals; plastics manufacturing; power; mining and quarries; paper and wood pulp; primary metals and power.

Fill out the enclosed Business Reply Card for more information!

*Featuring APM Automation Solutions Ltd Technology (patent pending)



SmartBob Console - Get Rich (Information) Quick!

A Wealth of Information at the Push of a Button



CONSOLIDATING ALL OF THE FEATURES of the BinMaster SBC, SBC-A, and RSU consoles into a single unit, the SmartBob2 Console is the easiest way to remotely initiate and view measurements from multiple SmartBob2 sensors. This compact, manually-operated console provides basic, local control and monitoring plus fast measurement readings from one up to 128 SmartBob remotes at a single networked location with the push of a button. The SmartBob Console can be used alone or integrated into a network using eBob software.

The user-friendly LCD backlit display provides instant access to bin data via an intuitive user interface that makes it easy to configure the unit and retrieve data. Its menu system of simple choices and value adjustments is operated via a six-button, membrane style external keypad featuring an enter key, escape key and four directional keys. Measurements are displayed as distance to product, height of product, percentage full, and estimated weight. The display also indicates the status of the SmartBob2 remote during the measurement cycle.

Individual bin parameters are programmed into the SmartBob Console with the help of an auto detect feature that enables the SmartBob Console to survey and create a list of the SmartBob2 remotes connected to the network. Additionally, the SmartBob Console is capable of master loading characteristics of similar vessels, saving users' time versus manually loading information for each individual vessel. All bin parameters, last measurement data and all user settings

are retained in the SmartBob Console memory, even the event of power loss.

SmartBob Console Provides One Console Convenience

| | | |
|----|--------------------------------|---|
| 1 | One Console Convenience | Consolidates all of the features of the BinMaster SBC, SBC-A, and RSU consoles into a single unit. |
| 2 | Centralized Readings | A single console can provide readings from one up to 128 bins at a single networked location saving valuable time. |
| 3 | Improves Safety | All bin levels are checked at the console. No need to climb ladders to check bin levels. |
| 4 | Easy-to-Operate | Push-button controls and an intuitive user interface make it easy to configure the unit and retrieve bin data instantly. |
| 5 | Multiple Measurements | Measurements are displayed as distance to product, height of product, percentage full, and estimated weight. |
| 6 | Auto Detect Feature | Surveys and creates a list of all SmartBob2 remotes connected to the network. |
| 7 | Saves Time and Labor | Characteristics of similar bins can be master loaded versus manually entering each bin. |
| 8 | Transient Lightning Protection | RS-485 port with lightning / surge protection circuit provides transient protection from power surges that may occur during indirect lightning strikes. |
| 9 | Automated Data Back Up | Internal memory chip retains user settings, vessel configuration and last measurement data in the event of a power failure. |
| 10 | Durable Design | Enclosed in a NEMA4X splash and dust proof enclosure for installation in a protected outdoor environment. |

The SmartBob Console has one 4 to 20 mA output and remote start contact to provide a traditional interface to a PLC / DCS system for one SmartBob sensor. It is contained in a NEMA4X polycarbonate plastic, splash and dust proof enclosure for installation in a protected outdoor environment and can be used in industrial operating temperature ranges of -4°F to 158°F (-20°C to 70°C). The enclosure is easy to mount on a wall using screw holes, or optional DIN rail support, while two water-tight cord grips enable easy attachment of cables.



Go with the Flow Detect 1000 to Keep Operations Flowing Efficiently

Flow / No Flow Detection for Solids & Powders



THE BINMASTER FLOW DETECT 1000 SYSTEM consists of two components – the FDS 1000 Remote Sensor Probe which is mounted in a pneumatic pipeline, gravity chute or feeder – and the FDC 1000 Control Console which is mounted in an area accessible for users to read the console during operations. Flow Detect 1000 promotes continuous and efficient operations by informing users via a convenient LED readout that solid or powder materials are flowing and alerts them if the flow status has changed, power has been lost, or if communication between the Remote Sensor Probe and the Control Console has been interrupted.

Flow Detect 1000 uses proven, reliable Doppler technology to provide highly accurate and dependable readings compared to other flow detection systems using mechanical, triboelectric or ultrasonic methods. Flow Detect 1000 features an intrinsically safe, explosion-proof design which enhances safety and is suitable for a wide variety of industries, materials and operating environments. Its non-intrusive, flush mounting and non-contact operation avoids contact with the flow stream, eliminating flow stream interference and equipment wear that can occur with other flow detection technologies. It is easy to operate, using single-turn sensitivity calibration and allows for other control settings to be done from the Control Console without needing to access the Remote Sensor Probe



For a free brochure on Flow Detect 1000, visit www.binmaster.com or call BinMaster sales at 800-278-4241.



Calendar

See BinMaster® at these upcoming events. Please contact Nathan Grube at 800-278-4241 if you would like more information about the event or to arrange a meeting with us while you are there.

Exchange 2009
Grain Elevator & Processing
Society Exposition
Booth 908
February 28 to March 3
St. Louis, MO USA

NPE2009
The International Plastics Showcase
Booth 64111
June 22 to 26
McCormick Place
Chicago, IL USA

Be On The Lookout New BinMaster Web Site Premiere

BINMASTER IS LAUNCHING AN ENTIRELY NEW WEB SITE IN THE FIRST QUARTER

OF 2009. Our goal was to make it even faster and easier for users to find information on Binmaster's products and technologies. On the newly designed site, all information is no more than three clicks from the home page. The home page contains updated navigation for Internet searchers to quickly select the type of product technology they are looking for – such as Rotary, Capacitance, or SmartBob – and are instantly linked to an index for all products BinMaster offers in that category. Plus, it highlights the most frequent downloads, such as product catalogs and the current newsletter as well as the most recent product news from BinMaster.

Looking at Web traffic from the existing BinMaster site, we learned that customers primarily visit BinMaster for two main reasons – searching for specific types of products or looking to download literature. Traffic reports to the current site indicate that one of the features people use most is the ability to easily find and download files containing product information. On the new site, customers select the type of information they desire and then navigate to the appropriate index to download brochures, manuals, parts lists and specifications lists. Updated contact information provides links to get fast responses to Web questions and the most updated distributor information.





Established in 1953, Garner Industries is home to the BinMaster® level control business. Additionally, our state-of-the-art ISO 9001:2000 certified facility in Lincoln, Nebraska USA offers jobshop and precision tooling services for a wide variety of industries including automotive, refining, electronics, aerospace, and telecommunications ... to name but a few. Visit www.garnerindustries.com to find out about our full suite of services.

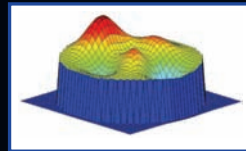
PRSRT STD
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1-09-22, 371-NPC

NEW! 3D Level Scanner™*

Revolutionary
Non-Contact Measurement



*Featuring APM Automation Solutions Ltd Technology (patent pending)



www.binmaster.com

800.278.4241