

## SMARTBOB INVENTORY MANAGEMENT

### Proven Continuous Level Technology

**SmartBob Inventory Management Systems** are designed for continuous inventory level management. The SmartBob Sensors are installed at the top of a vessel, and when prompted to take a measurement, the rugged motor releases a nylon cable from the supply pulley and a weighted sensor probe descends to the surface of the material. When the sensor probe touches the material surface, measurement information is transmitted. These versatile measuring devices can be used in conjunction with eBob Inventory Management Software, the SmartBob Control Console, the BINMASTER<sup>®</sup> Remote Start Unit (RSU), and the MUCM Communication Module.

### SmartBob2 Cable-Based Sensor

BINMASTER<sup>®</sup> **SmartBob2 Cable-Based Sensors** are the core components of a proven, reliable level measurement system using cable-based sensing technology. The SmartBob2 can be uniquely configured using a variety of probe designs and extensions for solid, slurry, and liquid applications. Long-lasting, hassle-free service is ensured by SmartBob's unsurpassed cable cleaning system. The SmartBob2 is extremely rugged, featuring the industry's strongest cable and motor design, which is completely sealed in a strong, lightweight, molded polycarbonate enclosure which is explosion proof and rated for Class II, Groups E, F, & G Certifications. Requiring no field calibration, SmartBob2 is easy to install, requires minimal wiring, and can even be used with the SmartBob Wireless Transceiver.

#### Features

- Economical, Regardless of Number of Units Installed
- 5th Generation eBob PC-Based Inventory Management Software
- Output & Display Consoles for 1 to 120 Bins
- No Field Calibration or Adjustment
- Advanced Microprocessor-Based System with Built-In Measurement Reliability
- Minimal Ongoing Operational & Maintenance Cost
- RS-485 Network w/Wiring Distance up to 4,000 ft
- Simple Daisy-Chain Wiring Allows Easy Installation
- Built-In Wireless Options Available

**Applications:** Plastics, Chemicals, Coal, Concrete, Food Ingredients, Pharmaceuticals, Feed and Grain, Aggregates, and Other Powder & Bulk Solids Materials



### SmartBob TS1 Cable-Based Sensor

BINMASTER<sup>®</sup> **SmartBob TS1 Cable-Based Sensors** are economical and compact inventory management systems that are installed at the top of the vessel. Its compact, yet rugged design, weighs less than 10-lbs and is immune to airborne dust and filling noise that can interfere with other continuous level devices. It can be mounted on angled or flat roofs and can be used in vessels up to 40' tall. The SmartBob TS1 is compatible with eBob software and consoles from BINMASTER<sup>®</sup>'s SmartBob Inventory Tracking System.

#### Features

- Economical, Regardless of Number of Units Installed
- 5th Generation eBob PC-Based Inventory Management Software
- Output & Display Consoles for 1- to 120-Bins
- No Field Calibration or Adjustment
- Advanced Microprocessor-Based System with Built-In Measurement Reliability
- Minimal Ongoing Operational & Maintenance Cost
- RS-485 Network w/Wiring Distance up to 4,000 ft
- Simple Daisy-Chain Wiring Allows Easy Installation
- Built-In Wireless Options Available

**Applications:** Carbon Black, Plastics, Fly Ash, Feed, Seed, Grain, Food, Chemicals, and Other Materials



## SMARTBOB INVENTORY MANAGEMENT

### SmartBob MultiBob System

The BINMASTER<sup>®</sup> **SmartBob MultiBob System** allows from 2 to 32 SmartBob Sensors to be mounted in a single bin, tank, silo, or any other vessel containing powders or bulk solid materials. The measurement data from each sensor is averaged in the advanced eBob software based on user-defined parameters to provide a single level measurement and percentage full for the bin.

The MultiBob System is useful when installed in any bin where the user wants more data to determine inventory levels. The measurement data, as reported in feet by the SmartBob sensor, is very precise and repeatable. Each sensor measures in the same location every time, detecting level changes in bins containing difficult-to-measure material, such as large diameter bins with areas where material tends to pile up.

In addition to multiple point measurement, the advanced eBob software allows the user to add a strapping table to the bin parameters to further personalize the data for a particular bin. Strapping tables are helpful when the material in the bin tends to compact, which makes the bulk density of the material higher at the bottom of the bin than the top. In a non-linear vessel, the addition of a strapping table will improve the estimated volume of material in the tank.

#### Features

- Two to 32 SmartBob Sensors on a Single Vessel
- Software Averages Level for Selected Sensors
- View Levels for One Sensor or All Sensors
- Can Indicate Cone Up or Down Conditions
- Detects High and Low Spots
- Strapping Tables for Custom Vessel Configuration
- Measurements at User-Defined Levels
- Initiates Measurements on Demand
- Automated Alerts for Various Alarm Conditions
- **No Climbing** and **No Tape Measurers!**

**Applications:** Plastics, Food, Seed, Chemicals, and Other Powder & Bulk Solid Materials



The BINMASTER<sup>®</sup> **eBob Inventory Management Software** is designed to help users gather real-time inventory data from storage bins. The eBob program works in conjunction with BINMASTER<sup>®</sup> SmartBob2 Remote Level Sensors to provide measurement data to a personal computer. This bin measurement monitoring solution collects data from up to 100 vessels and allows for data to be viewed via LAN network connections by authorized users. eBob Software generates reports that can be used to increase operational efficiency and provide valuable real-time and historical data used for effective decision making.

#### eBob Manages Critical Inventory Data such as:

- Vessel Name, Number, and Content
- Distance to Product (Headroom)
- Product Volume and Weight
- Percentage Full
- Date and Time of Last Measurement
- Measurement Device Status — Descending, Retracted, and Inactive
- Measure Button to Active New Measurement
- Headroom Checkbox to Calculate Remaining Volume
- Strapping Tables for Non-Linear Vessels

