

HIGHER LEVEL

NOVEMBER 2006

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“BinMaster will provide the most thorough and exact solutions to the challenges and opportunities presented by the customers we serve.”

New SmartBob-TS1 Offers an Affordable and Reliable Inventory Tracking Solution



SmartBob-TS1 sensors measuring dry feed in eight 20' feed silos on a hog farm in Roseboro, North Carolina

Remote Managed Inventory (RMI) provides a more efficient method of product management between a supplier and customer (remote site). The use of a remote managed inventory system to monitor and control the usage of raw materials has brought important real time benefits to a wide range of industries, especially where bulk materials are a vital part of the process.

A corporate hog operation in North Carolina has installed SmartBob-TS1 sensors on eight feed silos at one of their

contracted farms. They manage critical inventory levels with real time data using the eBob software. The powerful



eBob information management system communicates preset or on-demand readings to any PC with internet access and proper authorization.

This system allows the feedmill to keep a constant check on supplies of feed at this particular farm. By studying trends in usage, they can optimize their schedules to meet expected demands and forward plan their delivery logistics.

More TS1 on page 2



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- ◆ **Point Level Sensors**
- ◆ **Inventory Measurement**
- ◆ **Flow Detection**
- ◆ **Dust Detection**
- ◆ **Aeration & Vibration**



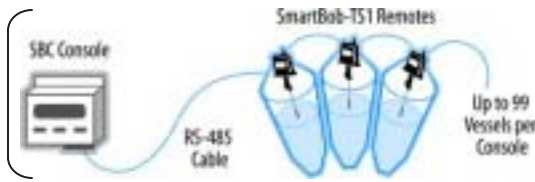
New SmartBob-TS1 Continued...

Communication Options

Operation

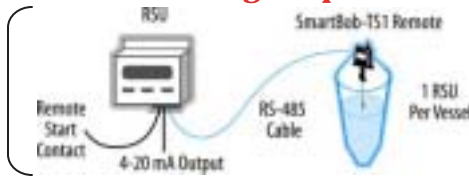
The SBC Console is a simple readout that will initiate measurements with a push of a button. Displays distance to product, product height and percent full.

Push Button Console



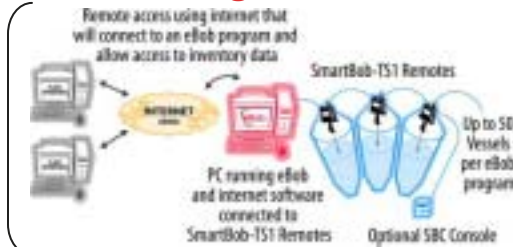
Provides an external start input, a 4 to 20 mA current loop output, and remote display of the measurements.

Analog Output



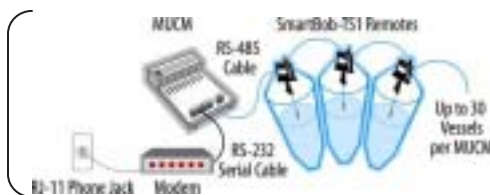
eBob software is installed at a single site and will gather data from 1 to 100 SmartBob-TS1 sensors. Remote access using the Internet will allow access to inventory data and measurements can be initiated via the Internet.

eBob Program/Internet



The MUCM module has a built-in SmartBob application that will initiate scheduled measurements and transfer inventory data via a phone modem.

Phone Modem



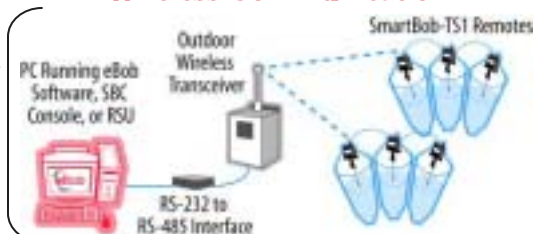
The MUCM is capable of translating the SmartBob-TS1 protocol to Modbus RTU, Ethernet, Devicenet™, or Profibus protocols.

Modbus/Ethernet/Devicenet/Profibus



Our wireless data transceiver eliminates the need for running long spans of communication cable by providing two-way wireless data communication between SmartBob-TS1 sensors and the control source on the ground.

Wireless Communication



HOW THE SMARTBOB-TS1 OPERATES



When a SmartBob-TS1 positioned on the top of a vessel is asked to take a measurement, a hardwearing motor releases a nylon cable from the supply pulley and a weighted sensor probe quickly descends to the surface of the material.

During the descent, the SmartBob-TS1 measures the cable dispensed by counting pulses with a high resolution microcontrolled optical sensing system. When the sensor probe touches the material surface, pulses are momentarily stopped and measurement information is transmitted. The absence of pulses also causes the motor to reverse and retract the sensor probe. A second confirming measurement is taken as the probe retracts and is compared to the descend measurement.

As the probe is retracted, motor torque is automatically reduced during the last 12" of the retract cycle resulting in a "soft retract seating" which extends the life of the SmartBob-TS1 and ensures proper cable spooling.

SmartBob-TS1 Accessories

Angled Mounting Flange



Mounting flanges are available in 0°, 5°, 10°, 15°, 20°, 30° and 45°

Digestible Bottle



Filled with paraffin wax that can easily pass through rotary valve or screw conveyer

5" Stainless Steel Float



Stainless Steel float for liquids, slurries and light powders

Pipe Extension



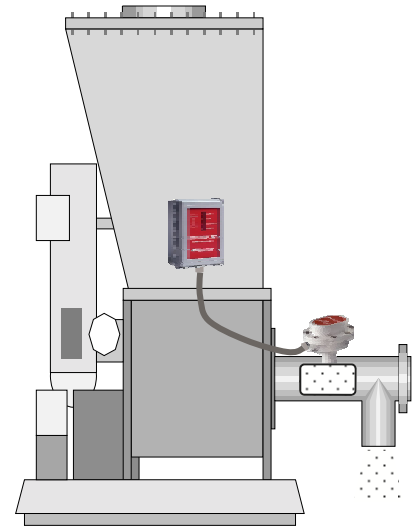
Keeps the sensor probe from being pulled up into a standpipe, functions as a bushing, and keeps the cable from fraying

Flow/No Flow Detection for Solids and Powders

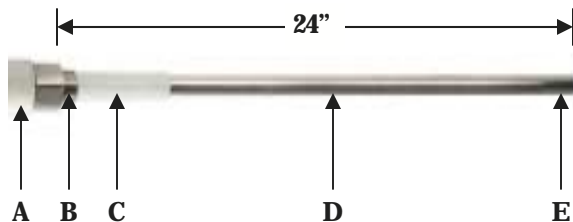


BinMaster Flow Detect 1000

The Flow Detect 1000 is a high quality, industrial grade instrument which senses flow/no flow conditions of solids and powders in pneumatic pipelines, gravity chutes, and feeders. Because it uses Doppler technology, the Flow Detect 1000 gives you the most accurate reading available. The sensor probe is completely non-intrusive, avoiding contact with the flow stream. This eliminates flow stream interference and equipment wear commonly found with other flow detection methods.



New Field Adjustable Capacitance Probe



- A. 1 1/4" NPT Fitting
- B. 3/4" High Pressure Fitting
- C. Sleeved PRO Guard Shield
- D. 5/8" Solid Stainless Steel Probe
- E. Probe Can be cut down to 8 inches or extended to 8 feet

The new shielded, bare stainless steel OEM probe was designed to allow customers to purchase one standard probe and adjust the length in the field. This will reduce the cost, decrease lead times, and allow you to stock one probe.

Coming In January.....New BMRX Rotary Bin Level Indicator



- ◆ Triple Thread Screw Off Cover - No more bolts!
- ◆ DPDT Relay Output, 250VAC, 10A
- ◆ Switch Selectable High/Low Fail-Safe
- ◆ Removable Terminals for Easy Wiring
- ◆ Dual Conduit Entrance for Improved Wiring Access
- ◆ Hazardous Location Approval Standard
- ◆ Built-in Motor Slip-Clutch Protects Drive
- ◆ De-Energized Motor with Sealed Gear Assembly
- ◆ Wetted Parts are all Stainless Steel
- ◆ Three Bearing Design for Greater Shaft Stability
- ◆ Powder Coat Finish
- ◆ Available in 115VAC, 230VAC, 24VAC, 24VDC, and 12VDC
- ◆ The Best Value on the Market



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