

EAGLE

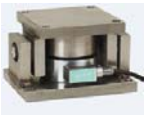
DRY BULK MATERIAL INVENTORY MEASUREMENT SYSTEMS

- WEIGH CONTROL SYSTEMS
- ULTRASONIC NON-CONTACT SYSTEMS
- WEIGHT & CABLE BIN LEVEL SYSTEMS
- POINT LEVEL SENSOR SYSTEMS

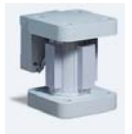
CONSISTENT
RELIABLE
ACCURATE

DIRECT SUPPORT WEIGHT SYSTEM

Designed for high accuracy applications, load cells and load stands are ideal for applications ranging from sanitary SIP/CIP conditions to rugged outdoor environments.



Load Cells (pictured at left) are available for weighing hoppers, and for batching and blending applications. Load Stands (pictured at right) are available for weighing silos and larger storage bins.



In process controllers for these units are versatile and reliable systems for automated control of material movement.



The KM 2020 Batcher Model (pictured at left) monitors Load Cells mounted on batching and Blending process equipment. The weight indicator/Process controller with load cell diagnostics offers flexibility, connectivity and reliability. It provides stand alone Batch-In or Batch-Out by weight with versions for up to 8 ingredients and 9 formulas.

The KM MVS Systems (pictured at right) monitors Load Stands mounted on single and multiple vessels. Full featured, multi-functional signal processor and display for continuous level and weight monitoring that is fully configurable and expandable for up to 120 vessels.



Remote monitoring of the weight indicators is available for this system via the ORB 2.0 System. This system offers remote monitoring of the weight indicators. This bulk material management



Silos being installed by Eagle Installation Crew on Load Stands

tool can be utilized remotely by material suppliers and multiple in-plant departments. A user can log into the network (LAN or WAN) connection via a simple web browser interface.



Pictured at right: KM Load Stand II Mounted below a Steel Structure

ULTRASONIC NON CONTACT LEVEL SENSOR SYSTEM



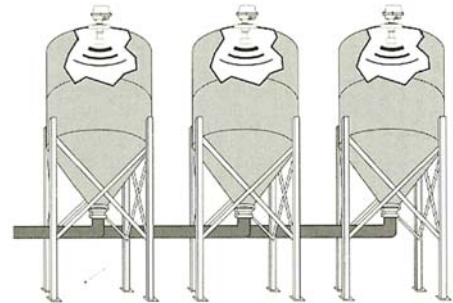
Non Contact Ultrasonic Level Measuring System provides continuous measurement and monitoring of levels in multiple vessels containing powders, solids, liquids and slurries.

Ultracell transducers (pictured at the left) provide a combination of features, such as high power end extremely narrow beam angle. Combined with the Ultra-wave level indicator (pictured at the lower left), the system is unsurpassed in capabilities.

“Ultra-Wave” level indicator monitors vessels with up to 16 transducers of various frequencies and vessels of different heights and shapes.



Remote monitoring of the weight indicators is available for this system via the ORB 2.0 System. This system offers remote monitoring of the weight indicators. This bulk material management tool can be utilized remotely by material suppliers and multiple in-plant departments. A user can log into the network (LAN or WAN) connection via a simple web browser interface.



WEIGHT AND CABLE BIN LEVEL SYSTEM

Also called “Plumb-Bobs” or “Yo-Yo’s”



Sensor Indicator

The sensor, when mounted on top of a vessel, lowers a weight on a cable to the material surface in a storage vessel and then raises or lowers the weight as the distance it travels is measured and related to the material.

Remote display readout panel measures the distance transmitted by the Yo-Yo sensor, Distance measurement or volumetric conversion for coned or flat bottomed vessels.

Remote Management Inventory control systems are available for product monitoring by suppliers and customers. Inventory information is transmitted via your LAN or the Internet.



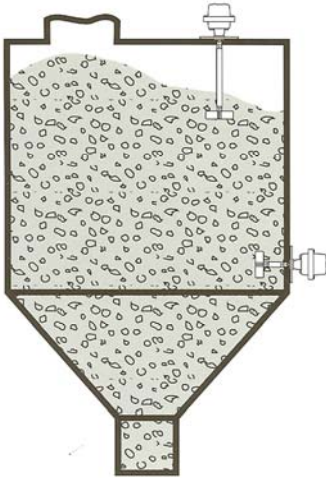
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POINT LEVEL SENSOR SYSTEM

Sensors for bulk material handling and process control. Paddle Bin Monitors offers both mechanical and electronic sensing in one reliable point level sensor.



Paddle units can be used for high level indication of materials over 10 lbs/ft³ and for low level and intermediate level indication for materials over 5 lbs/ft³.

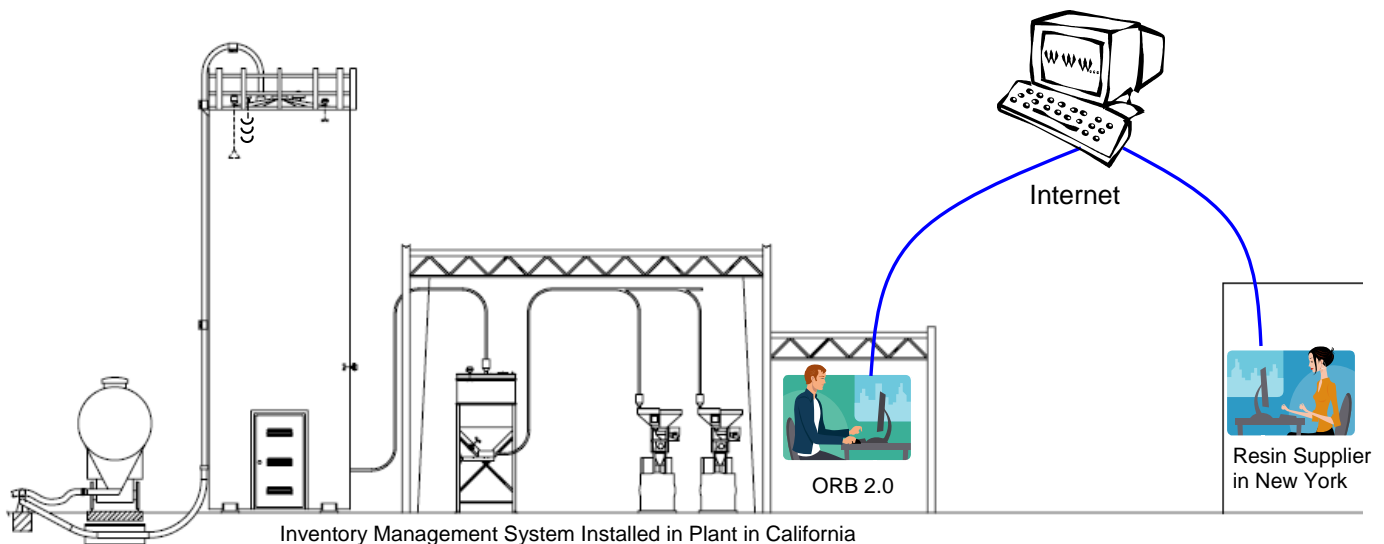


The unit is installed through the wall of the vessel, so that the paddle protrudes inside of the vessel. A small electrical motor drives the paddle which rotates freely in the absence of material. When the paddle rotation is stopped by the presence of material, a signal is sent to a control panel that contains Hi & Low level lights, and/or a buzzer. Typical applications are bin high level to prevent overflow of material and bin low level to warn that the material is running out.

SYSTEMS INSTALLATIONS

Eagle provides installations and retrofits for all inventory measurement systems throughout the US, Canada & Mexico.

Eagle's experienced crews install, program, and train plant personnel on each of the systems described in this brochure.



Inventory Management System Installed in Plant in California

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REMOTE MONITORING SYSTEM FOR ULTRASONIC SYSTEMS & WEIGHT INDICATION SYSTEMS

The Orb 2.0 System is for the Ultrasonic Systems & Weight Indication Systems and offers remote monitoring of the indicators. This bulk material management tool can be utilized remotely by material suppliers and multiple in-plant departments. A user can log into the network (LAN or WAN) connection via a simple web browser interface.

ORB 2.0 TRANSFORMER (ORB 2.0)

The ORB 2.0 Remote Monitor - it transforms ordinary level and weight data into useful information that will increase process productivity at every level of the organization. This instrument interfaces with the sensing systems to log high volumes of data that are then organized as needed by various users within the plant environment as well as remotely. Bulk material management, capacity utilization, and system reliability have direct impact on Quality, Delivery and Cost (QDC). The simplicity with which information is transformed is made possible with the simple HTML

access to this highly reliable server. Thus, via a simple web browser interface, the programs are accessible without need for special programming, drivers or software packages.

Productivity and Flexibility

Standard are the communication ports which include TCP/IP as well as its built-in web server and optional modem. A user can log onto the network (LAN/WAN) for immediate access to individualized information that features both graphical format as well as a tabular format. Historical trending, raw data access and 'events' extend user flexibility.



KM Orb 2.0

Users include operations, maintenance and instrumentation, finance, procurement, material planning and IS/ IT. As the ever-changing requirements of users differ, so do the feature-rich capabilities of the system. While real-time material updates, past trends and usage rates are needed for some users, watchdog alarms can help operations warn of imminent overfills, low levels or run outs. Reports not only weight and level information, but also pressure, temperature and flow; in effect, all process control equipment information with 4-20 output. Secure user access can be assigned by department

for in-plant use and extend to remotely based suppliers or other logistics personnel. Diagnostic capabilities include instrument calibration backup for validation. KM remote system troubleshooting can access the unit through the IP address and remotely troubleshoot any problems that may occur.

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