

Ultrasonic Continuous Level Measurement



Advanced Bulk and Conveying, Inc., offers a full line of ultrasonic continuous level measurement products. These products are only intended for solids measurement and are therefore focused on these very difficult measurement applications. Systems with transmitters are available for easy-to-measure materials. Sensor/Controller systems solve the measurement problems found with more difficult powders or dusty materials.

How They Work:

This type of product utilizes the principles of ultrasonic technology to provide accurate level measurements in solids storage vessels. A non-contact Sensor/Controller or Transmitter emits ultrasonic pulses, which are reflected by the measured surface of material. A reflected pulse is called an echo. The distance measurement from the sensor or transmitter to the material is directly related to the duration of time necessary for the echo to return to the sensor or transmitter. The sensors provide a signal to a controller which then analyzes the signal, using specially designed software, to ultimately provide reliable measurements of distance, level, volume, percentage, or whatever characteristic the user chooses. The transmitters provide a 4-20 mA signal proportional to the material level.

Application:

Sensor/Controller - All solid materials including powders, granules and pellets in applications with ranges up to 165 feet.

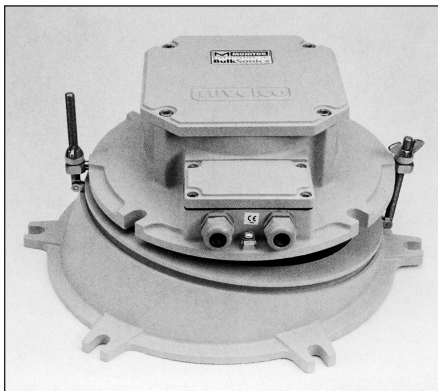
Transmitters - Granules or pellets in applications with ranges up to 52 feet.

Features:

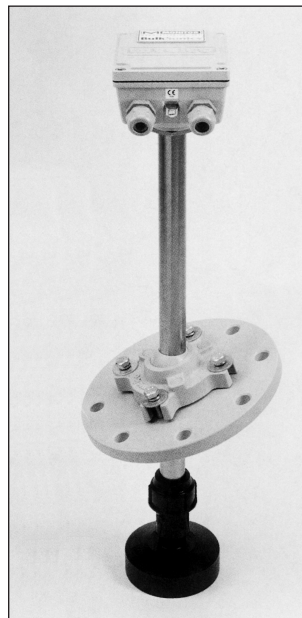
- Unique Signal Pre-Amplification at the Sensor Provides Maximum Signal-to-Noise Ratio
- Unmatched Echo Mapping
- Diagnostic LEDs Provide for Easier Installation
- Up to 165 ft. Range in Most Solids Storage Vessels
- Choose from Economical Stand-Alone Transmitters and More Sophisticated Sensor/Controller Systems

Controller:

Control panels for ultrasonic measurement systems are available in single station, dual station and eight station configurations.



Sensor/Controller with Standard Swivel Mount



Transmitter with Joystick Mount



Controller