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BinMaster Sediment Vibrating Rod Measures Solid Material Under Water



Lincoln, Nebraska (March 8, 2013)—BinMaster Level Controls announces a new vibrating rod for sediment level detection designed to measure the level of solid material that has settled in a tank containing liquids. It is used to detect when a layer of solid material reaches a specific level in a tank. The vibrating rod vibrates in water and then stops vibrating when the solid material reaches the level of the probe. When wired to a horn or alarm panel, personnel are alerted when the sediment has reached the probe and the sediment needs to be removed from the tank.

The BinMaster vibrating rod for sediment level detection comes in two different models. The VR-21 SED is the standard model with a 7.37” insertion length and is recommended for use on the tank wall. The VR-41 SED model is a rigid extended vibrating rod for top mounting applications and is custom made with extensions from 13” up to 13’ long, dependent on the needs of the application.

The VR-21 SED and VR-41 SED are commonly used in the water and wastewater industry where the sensor is used to detect the level of salt, lime, chemicals, silt and sediment that has settled in tanks at water treatment plants. Another common application for the VR-21 SED and VR-41 SED is to detect coarse and fine sediment in tanks at hydroelectric power stations. It can also be used in food and beverage manufacturing, chemical or metal processing, pulp and paper making, and at mining operations. Applications include measuring sediment in brine tanks or soak tanks, detecting sand or silt that has settled in tanks at quarries or mines, timely removal of sand and dirt at pumping stations, or measuring manure or compost that have settled in refuse vessels. Alternative uses include detecting the level of materials such as ash, carbon, lime, silt and mud once they have settled under water.

The VR-21 SED and VR-41 SED feature a unique single-rod probe design with a sword-shaped blade that allows material to easily flow by the sensor and settle on the bottom of the tank. These vibrating rods are easy to install, mounting to the vessel via a standard 1-1/2” NPT mounting socket and require no calibration. Both models feature an enclosure with dual conduit entries and convenient screw-off cover for easy access to electronic components. Other features include a switch selectable high/low fail-safe, and an auto sensing power supply which can accommodate 20 – 250 volts AC/DC. Remote electronics via a point level alarm panel are available to alert to bin levels for four up to 24 individual vibrating rods.

About BinMaster

BinMaster is a division of Garner Industries – an ISO 9001:2008 certified company established in 1953 and headquartered in a 75,000 square foot manufacturing facility in Lincoln, Nebraska, USA. BinMaster is strategically focused on designing, manufacturing and marketing reliable, proven sensing devices for the measurement of bulk solid and liquid materials for the feed and grain, food, plastics, pulp & paper, power, mining, and concrete industries. The BinMaster product line is sold worldwide and features many diverse technologies for bin level indication and measurement, being well known for its SmartBob2 and 3DLevelScanner advanced inventory management solutions. For more information about BinMaster, visit www.binmaster.com.

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