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Guided Wave Radar Level Sensor with Hazloc Approvals and Modbus RTU



(Lincoln, Nebraska—August 30, 2016) BinMaster's GWR-2000 guided microwave level transmitter provides continuous level measurement in vessels up to 100 feet tall with accuracy of ± 0.08 inches (2mm). It utilizes time domain reflectometry (TDR) to continuously measure the distance, level, and volume of powders or solids in bins, tanks and silos. This sensor features hazardous location approvals, a very small upper dead zone, and assures highly accurate level measurement in low dielectric materials down to 1.3. It has 4 -20 mA and Modbus RTU communication options, making it compatible with an HMI or PLC, as well as BinMaster's eBob LAN-based software program or BinView cloud-base monitoring.

The GWR-2000 housing is available in plastic, stainless steel or aluminum and has IP protection against dust ingress and water. An optional BinDisc interface enables push-button sensor setup and configuration on the unit. This TDR technology is proven to work in difficult applications with excessive steam, condensation, or buildup and is designed to be virtually maintenance free. The GWR-2000 excels in challenging conditions such as vessels with high dust and air movement, or excessive noise.

Advanced, high resolution signal processing significantly reduces or eliminates the upper dead band, ensuring accurate level measurement at the top of the vessel. The GWR-2000 has self-activating false signal suppression for increased reliability and level accuracy. Automatic probe monitoring reports immediately if the probe is broken to avoid damage to discharge equipment in the bottom of the vessel. Each sensor is made-to-order with a ready-to-install cable made to a custom length at the factory.

About BinMaster

BinMaster is an ISO 9001:2008 certified US manufacturer of point and continuous level indicators and inventory management systems used for monitoring the level of bulk solids or liquids in bins, tanks, silos and hoppers. Material management solutions include all-digital grain monitoring systems, flow detection sensors, and complete solutions using wireless devices & web applications to send data to a control room, console, SmartPhone, tablet, or PC. Robust, custom systems can be developed for a single site or networked for every bin, tank, and silo across a multi-national operation. For more information about BinMaster, visit www.binmaster.com.

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