

Guided Wave Radar for Liquids

*Accurate level and interface
measurement in vessels up to 75 feet*



The GWR-3000 is a guided wave radar designed specifically for level or interface measurement in liquid applications. It uses time domain reflectometry (TDR) to continuously measure levels in tanks up to 75 feet tall or in standpipes. It is offered with either an 8 mm rod, 2 mm cable, or 4 mm cable customized to the depth of the vessel. The GWR-3000 level sensor measures all types of liquids including those with steam, vapor, foam, condensation or those prone to residual buildup.

Versatility in a Wide Range of Liquids

Housings are available in single chamber or double chambers in plastic, stainless steel, or aluminum. Protection ratings are offered for IP 66, IP 67, or IP 68 dependent of the model selected for use in ordinary locations or with hazardous location approvals. Plus, there are Modbus, 2-wire 4-20 mA, and 4-wire 4-20 mA electronics options.

The GWR-3000 is designed for a long service life in even the most challenging liquids. Wetted parts are made of stainless steel for durability in caustic materials. Seals are made of FKM, FFKM or EPDM for longevity over the life of the sensor.

An optional BinDisc module, with Bluetooth option, ensures simple, time-saving, and reliable setup. Just one BinDisc is needed to configure multiple GWR-3000 sensors on site. The electronics are designed with comprehensive diagnostics to eliminate downtime and ensure maintenance-friendly operation.



For Tanks, Standpipes, or Separators

The GWR-3000 is ideal for tank metering and at tank farms. Its advanced technology can be used for level and interface measurement (separation layers) in tanks, bypass tubes, or standpipes.



- Ammonia storage tanks
- Bitumen or liquefied gas
- Ethanol storage tanks
- Anhydrous ammonia storage tanks
- Water separators in the paper industry
- Level and oil/water interface measurement
- Separators at petrochemical plants

Specifications

- **Measuring Range:** 75 feet (23 meters)
- **Accuracy:** $\pm 0.08"$ (2 mm)
- **Process Temperature:** -76°F to 392°F (-60° to 200°C)
- **Process Pressure:** -14.5 to 58Ø psig-(1 to +40 bar)
- **Mounting:** 1-1/2" or 2" NPT threaded, 2" or 3" flange
- **Housing Material:** Plastic, aluminum, or stainless steel
- **Enclosure Rating:** IP66/IP67/IP68 dependent on housing
- **Approvals:** CSA / FM Class II, Div 2, Groups E, F, G; Other approvals available
- **Output:** Two-wire 4 - 20 mA/HART®, Four-wire 4 - 20 mA/HART®, Modbus RTU
- **Dead Zone:** Ranges from 3.15" to 7.874" depending on use of rod, coated or uncoated cable and whether water or oil is measured.



GWR-3000-1022-BLC