



Non-Contact Radar for Liquids

Radar level sensor for measuring applications up to 26 feet

The NCR-21 is a low-cost non-contact liquid level measurement sensor for water, wastewater and other liquids stored in small vessels up to 26 feet. Ideal for pump stations and overflow monitoring, it is also suitable for measuring various fats, liquid ammonia, and other food additives. Its flood-proof IP 68 enclosure ensures a maintenance-free continuous operation. It is easily set up and monitored using integrated Bluetooth for wireless communication with data access via a smartphone, tablet or PC. The NCR-21 is also compatible with either the BinView® web application or BinInventory® software options for monitoring levels from multiple sensor types or sites.

Low-cost radar as an ultrasonic alternative

In the past few years, radar has become the technology of choice in many level measurement applications. While ultrasonic sensors were commonly used in the past, the technology advantages of radar are so convincing that many plant operators now prefer to use radar sensors instead.

Since radar signals propagate without effect from ambient conditions, radar sensors deliver reliable measuring results even when subjected to extreme temperature, heavy precipitation, or intense solar radiation. The flood-proof IP 68 housing ensures continuous, maintenance-free operation.





Level monitoring via a variety of options

- Bluetooth for setup, measurement display, and diagnostics
- BinView® web application from any internet-connected device
- BinInventory® software via a LAN, WAN, or VPN
- DPM-200, DPM-300, or DPM-500 digital panel meters

Built for Dependability

- Measuring range up to 26 feet
- For indoor or outdoor use without restrictions
- Non-contact gauge, level, and flow measurement for liquids
- Measurement unaffected by changing or harsh weather conditions
- Flood-proof IP68 enclosure withstands submersion, dust, dirt, or sand

Why Plants Love the NCR-21

- Precise measuring results independent of product, process, and ambient conditions
- High plant availability, wear, and maintenance-free
- Reliable, continuous non-contact measurement
- Simple sensor adjustment via smartphone or tablet

Typical Applications

- Water and wastewater plants
- Liquid ammonia
- Fats and food additives
- Water treatment and processing
- Water storage tanks
- Pumping stations
- Cooling water supplies
- Storm water overflow tanks
- Open channels

NCR-21 Product Specifications

- Measuring Range: 26' (8 m)
- Accuracy: $\pm 0.2''$ (± 5 mm)
- Mounting: 1½ NPT
- Ambient temperature: -40° to 176°F (-40 to 80°C)
- Process temperature: -40° to 140°F (-40 to 60°C)
- Process pressure: -1 - 2 bar
- Housing Material: Plastic
- Materials, Wetted-Parts: PP/PBT/Silicone
- Enclosure Rating: IP 68 (2 bar)
- Output: 4- 20 mA
- Cable length: 39' (12 m)

NCR21-0319-BLC