

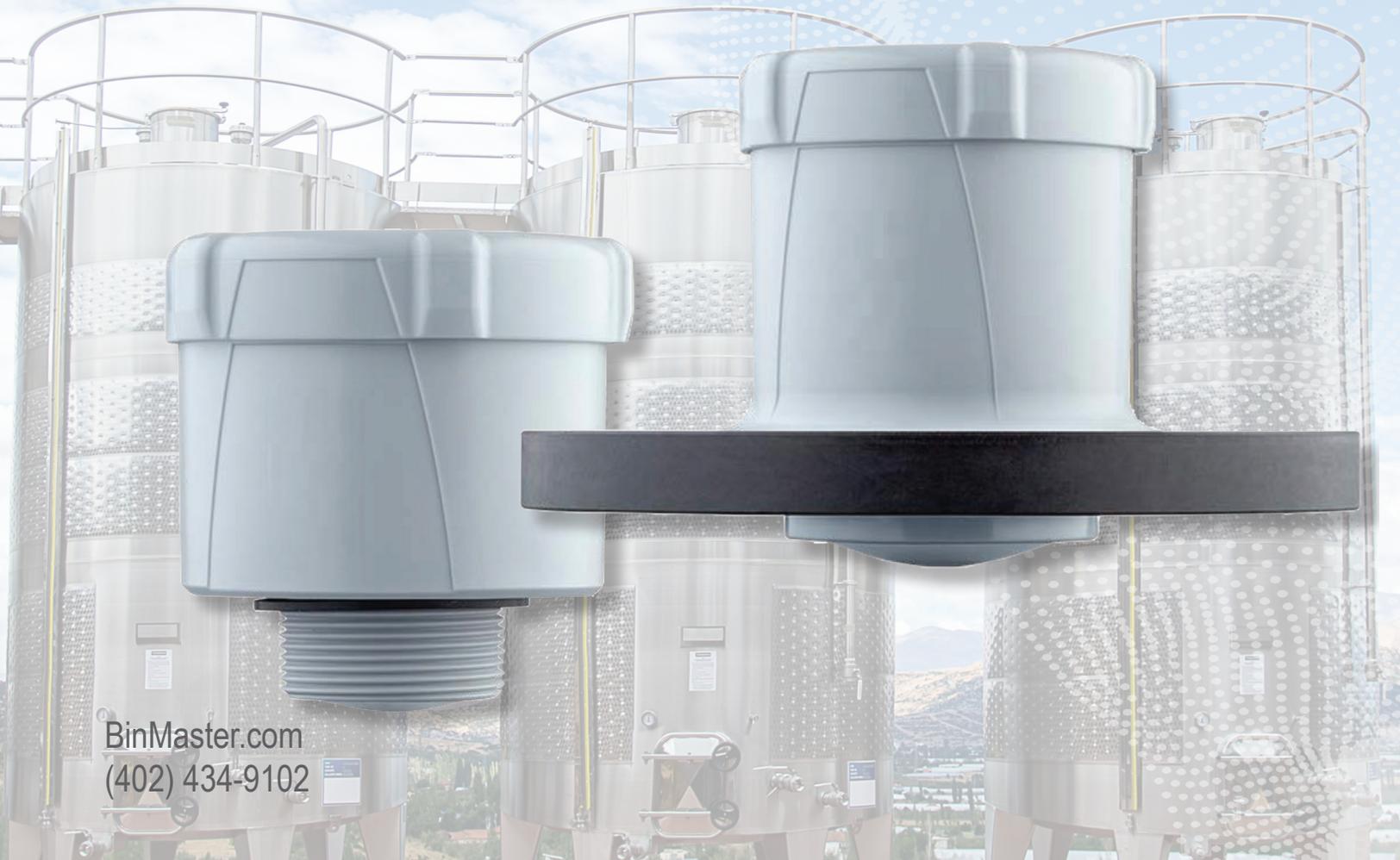
Battery-powered Compact Radar Level Sensor

Monitor bulk material inventory remotely and automatically

The CNCR-300 series of 80 GHz radar sensors gets its power from a lithium battery. No wiring is necessary to measure the levels of solids or liquids in bins, silos, tanks, or industrial containers up to 98 feet tall.

The sensor operates accurately and reliably, even in remote or difficult-to-access locations. It's the optimal solution for operations lacking ladders or structures to access the top of vessels safely and routinely.

The CNCR 300 series battery-powered IoT sensors communicate their measured values to the cloud wirelessly. There's no need for an electrician or expensive cabling, saving time and money on installation. As the system is Cloud based, there is also no need for on-site Internet access.





How CNCR-300 sensor works

CNCR-300 operates like other BinMaster's 80 GHz radar level sensors, but it's powered by battery instead of a hard-wired connection. Radar measures accurately through dense dust and foam. The sensor sends data over-the-air to a BinCloud gateway.

Why choose the CNCR-300

It's a simple, low-cost solution that's easy to install and put into operation and requires no additional power supply. The CNCR-300 allows you to connect ALL your vessels regardless of access to power or location to a one login BinCloud inventory system.

Easy installation: No wiring needed.

Long battery life: Three years based on measurement intervals

Wireless technology: Streamlines installation process

Precision: Accurate measurement of solids or liquids

Reliability: Performs consistently under various conditions

Maintenance-free: Operates at 80 GHz without hassles

Cloud-based access: Uses BinCloud for inventory monitoring

Where to use the CNCR-300

Install the CNCR-300 anywhere you need continuous level measurement for bulk solids or liquids. However, with battery power comes the versatility to monitor remotely located vessels and stand-alone sites.

- Agricultural chemicals
- Fertilizer manufacturing
- Grain storage bins
- Livestock silage silos
- Mining operations
- Animal feed bins
- Industrial bulk containers
- Road salt loadouts



	CNCR-320	CNCR-390
Application	Liquids and bulk solids in simple process conditions	Liquids and bulk solids in simple process conditions
Measuring range (Liquid)	49' (15m)	98' (30m)
Measuring range (Solid)	24' (7m)	48' (14m)
Antenna	Integrated	Integrated
Process fitting	1.5" NPT	Adapter Flange 4", 6", 8", Compression Flange 3"
Process pressure	-1 ... +2 bar (-100 ... +200 kPa)	-1 ... +2 bar (-100 ... +200 kPa)
Process temperature	-20° to +140°F (-20 ... +60 °C)	-20° to +140°F (-20 ... +60 °C)
Accuracy	±.078" (±2 mm)	±.078" (±2 mm)
Frequency range	80 GHz	80 GHz
Signal output	LoRa	LoRa
Setup	Bluetooth	Bluetooth
Power supply	Integrated batteries 5x 3.6 V (lithium), exchangeable	Integrated batteries 5x 3.6 V (lithium), exchangeable
Approvals	None	None