

## **BINCLOUD GATEWAY**

**Making Sensor Data Accessible Anywhere**

The BinCloud Gateway is used to flow data quickly and seamlessly in and out of a network. In an inventory management system, the BinCloud Gateway takes measurement data from level sensors and sends it to your control room, BinView, or BinInventory software.

The gateway is housed in a 10-inch x 8-inch x 4-inch enclosure made of non-corrosive, UV resistant polycarbonate. The lockable enclosure is rated to NEMA-4X. The gateway requires a 120-240 VAC power input.

### **Versatile Connection Options**

The BinCloud Gateway is designed to work with a variety of networks to make it compatible with existing network infrastructure. Every BinCloud Gateway is both Ethernet and WiFi (2.4 GHz) enabled. Cellular connectivity is also available.

The gateway can be programmed to automatically fall-over to cell data in the event of a downed Ethernet or WiFi network. This ensures your silo inventory is continuously available. Global cellular coverage utilizing 4G LTE, CAT-M, and NB-IoT technologies is offered through many reputable carriers.



## Highly Scalable

The BinCloud Gateway can connect to multiple Modbus networks simultaneously, unlike many gateways that are limited to just one. One gateway can do the work of multiple gateways, saving you money. Both BinMaster and competitors' Modbus-capable devices can be connected to a single BinCloud Gateway.

RTU, TCP, and RTU over TCP protocols are supported. BinMaster battery-powered sensors using LoRa long range communications, such as the FVL-200 and SPL-100 lasers, are also compatible with the BinCloud Gateway.

## One Device, Many Inputs

The BinCloud Gateway accepts many types of inputs including 4-20 mA, digital, mV, RTD, Potentiometer, and more. Just one gateway gives you all these options versus having a specific gateway for a particular type of input. This makes the solution compatible with different types of device inputs across an entire plant location.

The BinCloud Gateway can use local databases or APIs to send additional databases to BinCloud.

## Works with Wireless

The BinCloud Gateway is compatible with all BinMaster's wireless technologies to connect remote sensors. This includes the WL-19/20 wireless transceivers, Ubiquiti radios, and the WR-30 and WR-90 point-to-point and point-to-multipoint wireless systems. This saves money on wiring costs associated with your inventory system and simplifies installation.

## No Third-Party Services

The BinCloud Gateway uses one less step in the communications process to promote faster, more reliable communications than other gateway designs. The sensor sends data directly to the BinCloud gateway, then to the BinMaster Cloud for access by the user. This ensures fast update times of two to five seconds. It also reduces error messages and missed readings that are common to other gateway providers.



## Future-Ready Design

As cell technology is continually evolving, the BinCloud Gateway has implemented a cell modem that can be swapped out or replaced as the next generation of cellular becomes available or the old generation becomes obsolete. Users will not need to purchase a new gateway. Instead, they only need to buy and install a new cell modem saving hundreds of dollars.



The BinCloud Gateway is also designed to accommodate sensor devices under development for the future. LoRa-based ultrasonic and radar level sensors and camera-based level scanning solutions will utilize the BinCloud Gateway.

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