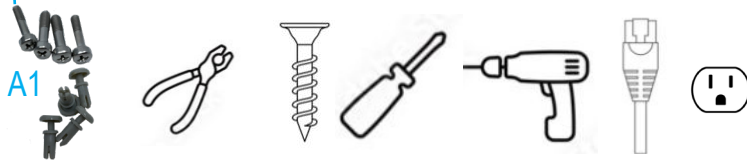


BINMASTER

QUICK SETUP GUIDE

BCGW.XXXXC-HCM

BIN CLOUD GATEWAY



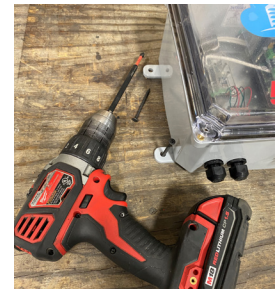
Tools needed: drill and bit, phillips screwdriver, drywall/ wood screws, ethernet cable, pliers. Screws and plastic plugs, A1, can be used to secure the top cover.

STEP 1

Choose a wall location to mount your Gateway. Make sure there is access to a 120VAC outlet and, preferably, an ethernet connection.

STEP 2

Attach mount brackets to the enclosure with the included screws. Brackets fit on protruding screwholes on the back of the enclosure. Then, use drywall screws and attach unit to the wall.

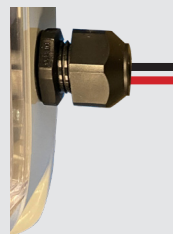


STEP 3

- Install 3 cable glands using a drill and bit on the HCM-100.
- One cable gland is for 110VAC positive and negative wires.
- One cable gland is for BinCloud Gateway Channel 1(A&B) to HCM-100 RX-A&B
- One cable gland for HART communication wires going to NCR sensors



(Cable glands not included)



STEP 4

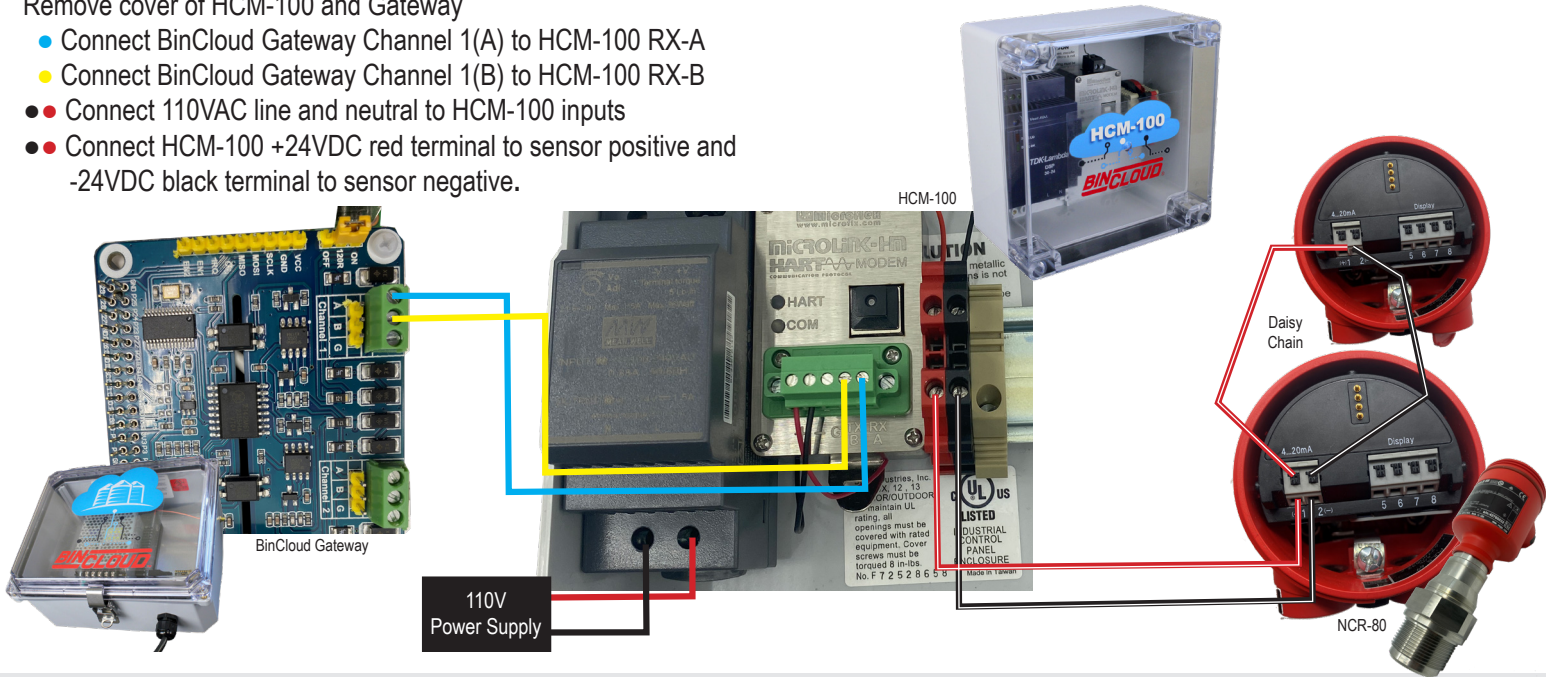
Attach the antenna as shown. This Gateway has been setup with multiNetwork cell connection that will automatically connect when powered. If cell service is unavailable it is possible to connect the Gateway ethernet plug to a network router or switch.



STEP 5

Remove cover of HCM-100 and Gateway

- Connect BinCloud Gateway Channel 1(A) to HCM-100 RX-A
- Connect BinCloud Gateway Channel 1(B) to HCM-100 RX-B
- Connect 110VAC line and neutral to HCM-100 inputs
- Connect HCM-100 +24VDC red terminal to sensor positive and -24VDC black terminal to sensor negative.



STEP 6 PLUG IN!

- Check wire connections and replace covers.
- Connect the Gateway ethernet plug to a network port, router or switch.
- Plug SmartBob and Gateway units into the 120VAC outlet.
- Wait 25 minutes and call BinMaster at 1-800-278-4241 to confirm the internet connection.
- BinMaster will create a custom cloud page with your specific bins, tanks, silos, sizes, locations, etc. We'll chat about your page during the connection verification call.



FIREWALL RULES FOR BINCLOUD GATEWAY

Direction Outbound	Ports	For these IPS	IP Addresses
TCP	80, 433		All
UDP	5959-5961		52.38.107.102
			52.25.64.249
			34.221.219.221
			54.218.6.237
UDP	5959-5970		52.39.255.60
			54.71.174.229
			52.88.4.160
			34.217.159.41
			34.213.84.184
			52.43.176.61
			35.162.54.59
			52.42.122.172
			44.224.165.129
			44.226.176.44
			44.237.66.197
			44.238.4.218
			54.184.44.101
			44.228.115.25
			44.230.239.2
			44.236.20.68
			44.236.200.9
			44.236.76.190
			44.239.243.92
			44.240.35.27

Direction Outbound	Ports	Region	IP Addresses
UDP	20000-40000	USA	All
UDP			54.212.116.92
UDP			52.12.114.120
UDP			52.87.228.243
UDP			3.88.21.119
UDP			34.223.7.202
UDP		Europe	54.93.100.223
UDP			18.195.88.21
UDP			18.184.70.5
UDP		India	15.207.116.15
UDP			13.127.230.228
UDP		SE Asia	13.212.70.205
UDP			13.212.30.222
UDP		Asia	18.182.42.125
UDP			13.230.250.171
UDP			18.179.34.24
UDP		Japan	52.69.206.76
UDP			18.179.57.238



Measuring a Vessel | Get Ready for BinCloud

In order to calculate material from level readings, we set up BinCloud software with your vessel dimensions. Bins, silos, and tanks vary greatly, so you'll need to provide physical measurements to BinMaster. Here's a handy guide to prepare for the BinMaster call:

Vessel Manufacturer _____ Model # _____ Other ID # _____
(if available from paperwork or plate on vessel)

Straight Wall Height: _____

Top Cone Height: _____

Sensors 4-20mA

Diameter*: _____

Bottom Cone Height: _____

4mA Distance Setting (empty): _____

Width*: _____

Bottom Opening: width: _____ length: _____

20mA Distance Setting (full): _____

Length*: _____

Top Opening: width: _____ length: _____

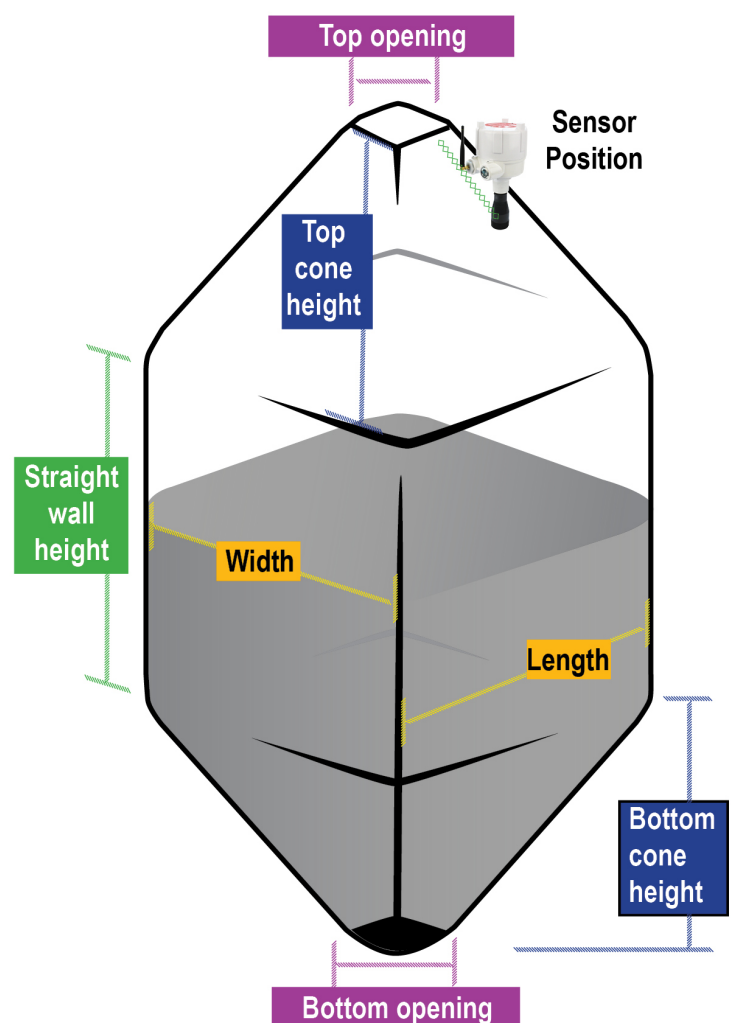
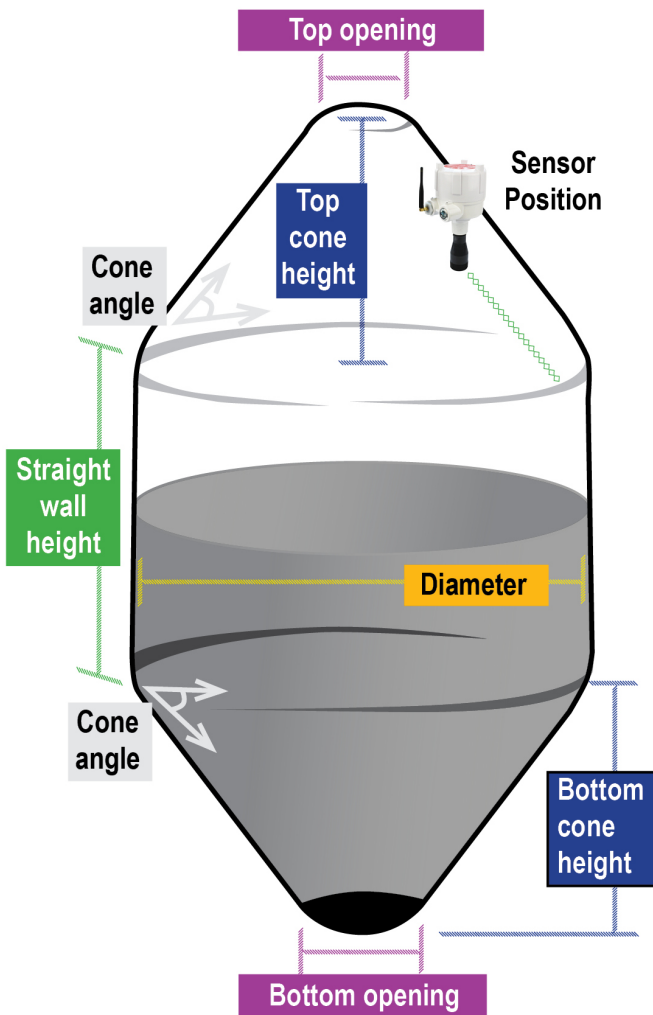
Top Cone Angle*: _____

Sensor Position _____

Bottom Cone Angle*: _____

Capacity _____

*Many measurements are available through vessel manuals and similar paperwork. Try searching model number and manufacturer name before pulling out your tape measure. * indicates this measurement needed only if applicable to the vessel shape (see illustration above)*



MORE CONFIGURATIONS →

Measuring a Vessel | Get Ready for BinCloud

