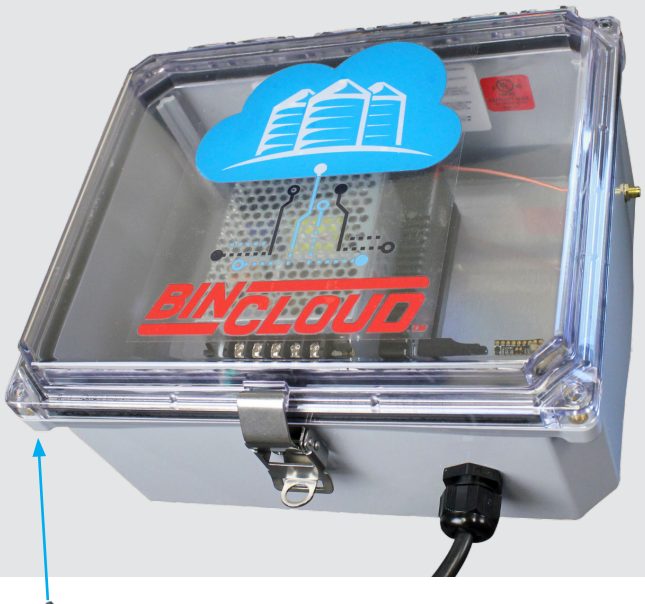
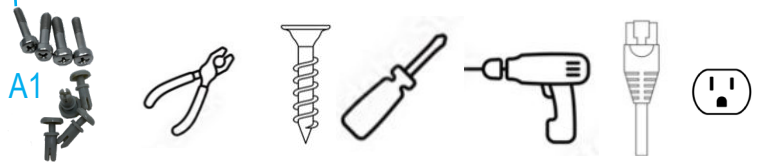


BINMASTER

QUICK SETUP GUIDE

BCGW.02XXE

BINCLOUD GATEWAY

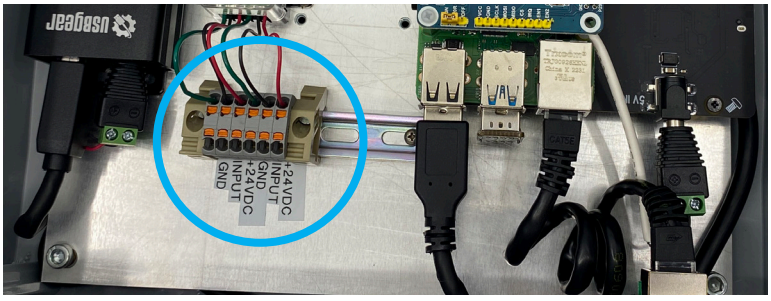


Tools needed: drill and bit, phillips screwdriver, drywall/ wood screws, ethernet cable, pliers. Screws and plastic plugs, A1, can be used to secure the top cover.

STEP 1
Choose a wall location to mount your Gateway. Make sure there is access to a 120VAC outlet and, preferably, an ethernet connection.

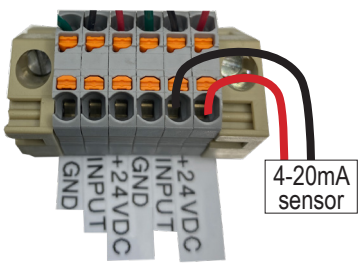
STEP 2
Attach mount brackets to the enclosure with the included screws. Brackets fit on protruding screwholes on the back of the enclosure. Then, use drywall screws and attach unit to the wall location.

STEP 3 FOR 4-20mA SENSORS
(Modbus sensors skip to STEP 3.1)
Open the cover and find the 4-20mA adapter terminal (circled).
Connect the positive sensor wire to the terminal labeled “+24VDC”
Connect the negative sensor wire to the terminal block labeled “INPUT”.
Ground wires go to “GND”.

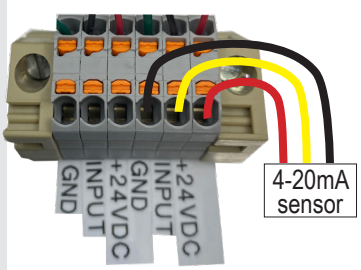


Base photo of Gateway. Some units include extra terminals.

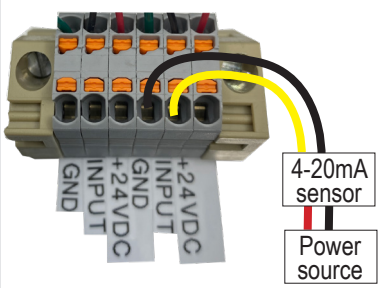
Wiring for a 2-wire sensor, powered by the current loop



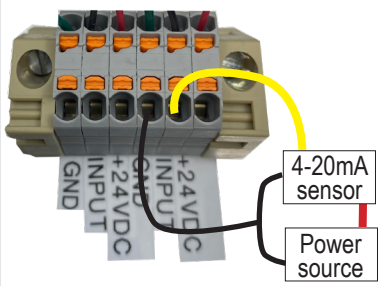
Wiring for a 3-wire sensor, powered by Yocto-4-20mA-Rx (max 80mA)



Wiring for a 4-wire sensor, with an independent power supply.

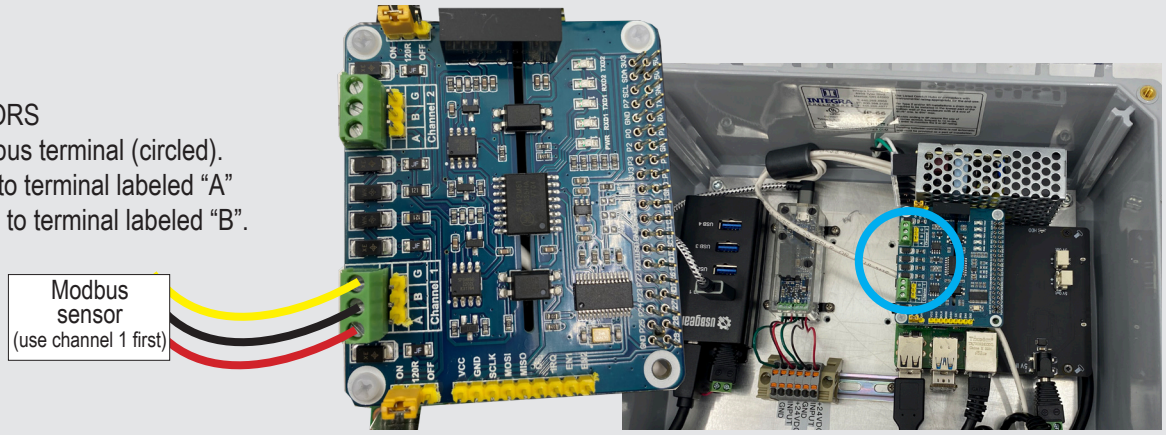


Wiring for 3-wire sensor, with independent power supply with common ground.



STEP 3.1 FOR MODBUS SENSORS

Open the cover and find the modbus terminal (circled).
Connect the positive sensor wire to terminal labeled “A”
Connect the negative sensor wire to terminal labeled “B”.
Ground wires go to “G”.
U

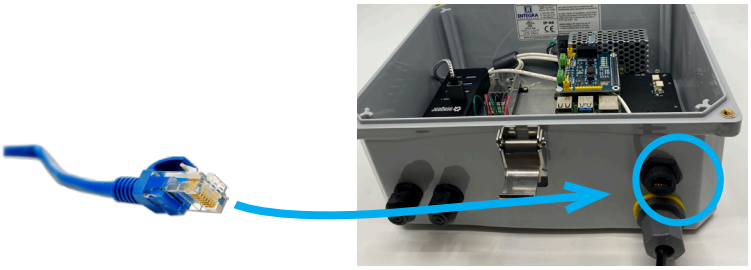


Base photo of Gateway. Some units include extra terminals.

Note: Gateways can accept both Modbus and 4-20 mA sensors simultaneously.
Caution: Incorrect wiring could cause damage to this unit and the sensors. When in doubt, always call your BinMaster technician.

STEP 4

Connect the Gateway ethernet plug to a network port, router or switch. Wait 25 minutes and call BinMaster at 1-800-278-4241 to confirm the internet connection. BinMaster will create a custom cloud page using measurements from your bins, tanks, silos, etc. Check the worksheet on following pages so you can prepare for this conversation.



FIREWALL RULES FOR BINCLOUD GATEWAY

Direction Outbound	Ports	For these IPS	IP Addresses
TCP	80, 433		All
UDP	5959-5961		52.38.107.102
	5959-5961		52.25.64.249
	5959-5961		34.221.219.221
	5959-5961		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: _____

Diameter:* _____

Width*: _____

Length*: _____

Top Cone Angle*: _____

Bottom Cone Angle*: _____

Top Cone Height: _____

Bottom Cone Heigh _____

Bottom Opening: width: length:

Top Opening: width: length:

Sensor Position_____

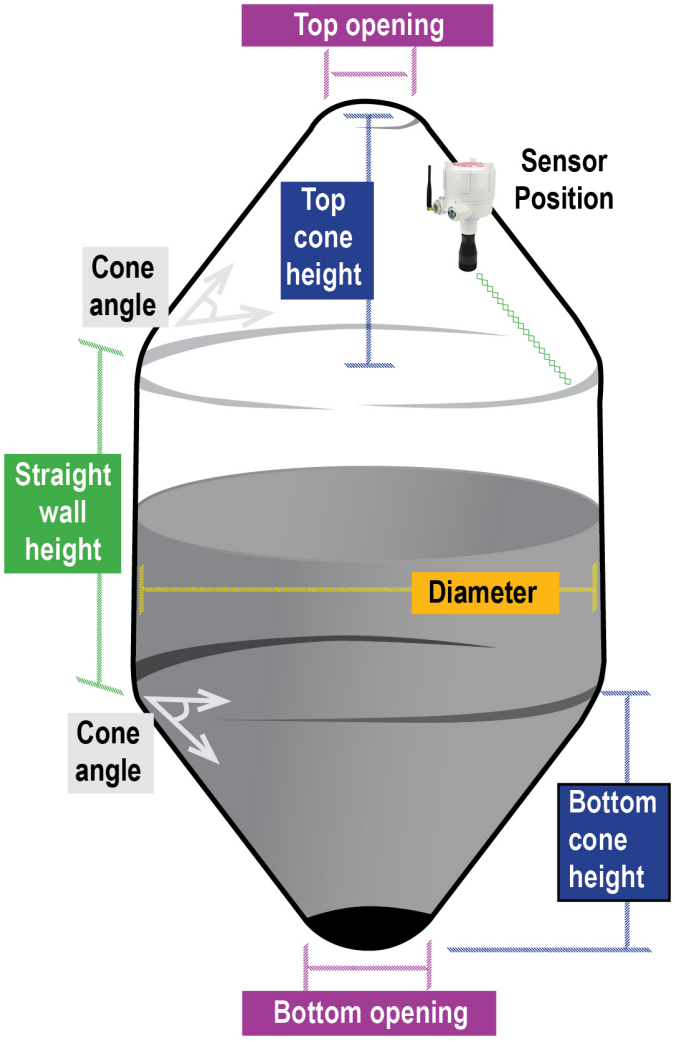
Capacity_____

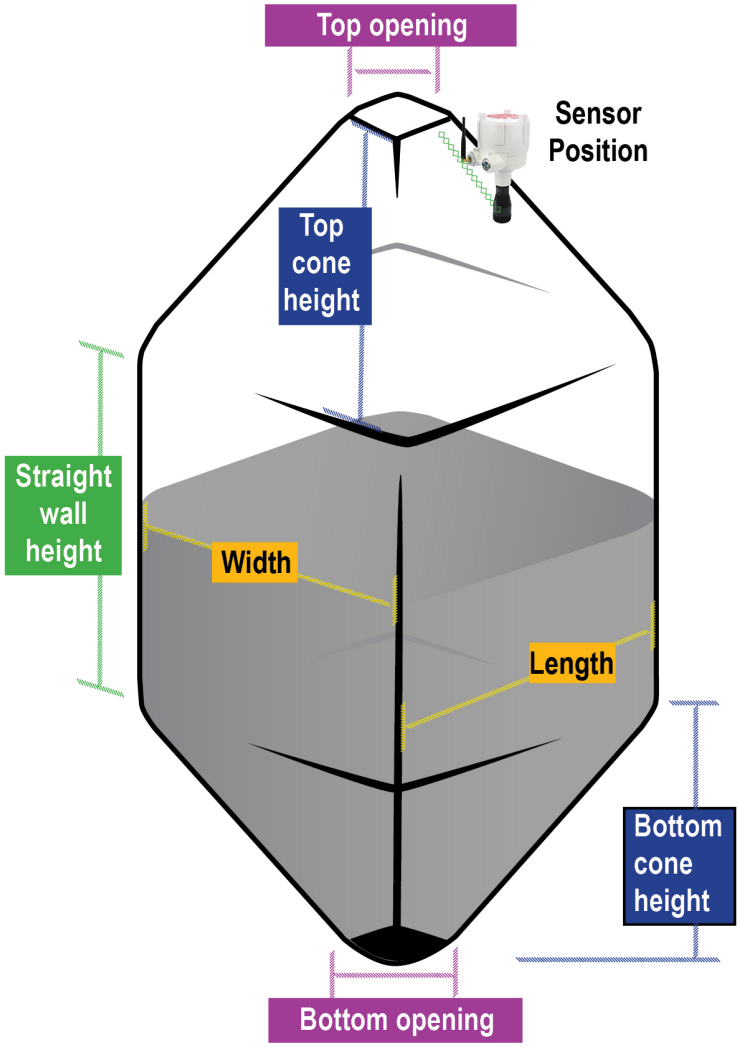
Sensors 4-20mA

4mA Distance Setting (empty):_____

20mA Distance Setting (full):_____

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