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
BinCloud Gateway to C-100
Gateway has two RS485 connections, Channel 1 and 2.
- Connect Channel 1, Terminal A to C-100 SB485(+).
- Connect Channel 1, Terminal B to C-100 SB485(-).
- Connect Channel 1, Terminal G to C-100 SH Terminal
STEP 4
Remove C-100 cover
● Connect C-100 SB485(+) to the SBR Terminal RS485(+)
● Connect C-100 SB485(-) to SBR Terminal RS485(-)
● Optional: Connect C-100 SHD Terminal to SBR SH Terminal

STEP 5 PLUG IN!
- Connect the Gateway ethernet plug to a network port, router or switch.
- Plug SmartBob and Gateway units into the 120VAC outlet.

WAY TO GO!
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.

<table>
<thead>
<tr>
<th>FIREWALL RULES FOR BIN CLOUD GATEWAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direction Outbound</strong></td>
</tr>
<tr>
<td>TCP</td>
</tr>
<tr>
<td>UDP</td>
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<tr>
<td>UDP</td>
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<tr>
<td>UDP</td>
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<tr>
<td>UDP</td>
</tr>
</tbody>
</table>

Direction Outbound | Ports | Region | IP Addresses |
TCP | 80, 433 | All | 52.38.107.102, 52.25.64.249, 34.221.219.221, 54.218.6.237 |
UDP | 5959-5961 | 52.39.295.60 | 52.71.174.229, 52.88.4.160, 34.217.159.41, 34.213.84.184, 52.43.176.61, 36.162.54.59, 52.42.122.172, 44.224.165.129, 44.226.176.44, 44.237.86.197, 44.236.4.218, 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 |
UDP | 5959-5970 | 52.39.295.60 | 52.71.174.229, 52.88.4.160, 34.217.159.41, 34.213.84.184, 52.43.176.61, 36.162.54.59, 52.42.122.172, 44.224.165.129, 44.226.176.44, 44.237.86.197, 44.236.4.218, 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 |
UDP | 20000-40000 | USA | 52.212.115.92, 52.12.114.120, 52.87.228.243, 3.88.21.119, 34.223.7.202 |
UDP | 5959-5970 | 52.39.295.60 | 52.71.174.229, 52.88.4.160, 34.217.159.41, 34.213.84.184, 52.43.176.61, 36.162.54.59, 52.42.122.172, 44.224.165.129, 44.226.176.44, 44.237.86.197, 44.236.4.218, 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 |
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 Height: __________________________
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).
Measuring a Vessel | Get Ready for BinCloud

- **SENSOR OFFSET**: Distance from surface
- **SENSOR POSITION**: Up from sidewall or top/min level
- **TOP OPENING**: Height, Diameter, Cone Height
- **CHUTE OPENING**: Height, Length, Diameter
- **BOTTOM OPENING**: Height, Cone Height

- **CONES**: Height, Cone Angle
- **SLOPE**: Height, Length, Width