User guide



Need help?
support@agflo.io
tel:1-855-951-2884

V5 - 20260812

Tools Required

1. Measuring Tape and a Laser Distance Measurer
For bin measurements

2. Torx T20 Screwdriver
To open the unit

3. Smartphone
To configure the device

4. Security Leash
To prevent the device from falling into the bin during the installation

*** Any security devices or harness to prevent falls and injuries during the climb**



Installation in six steps

1. Installation Startup
2. Battery Connection
3. Device Installation
4. Bin Registration
5. Bin Measurement
6. Activation

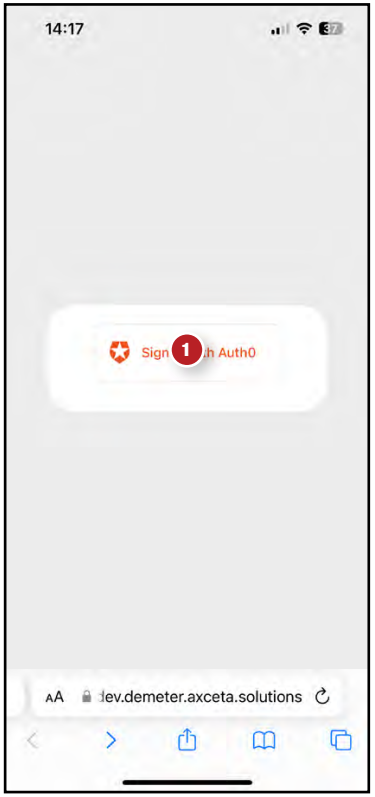
If you need help, please contact the AgFlo team.

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1. Installation Startup

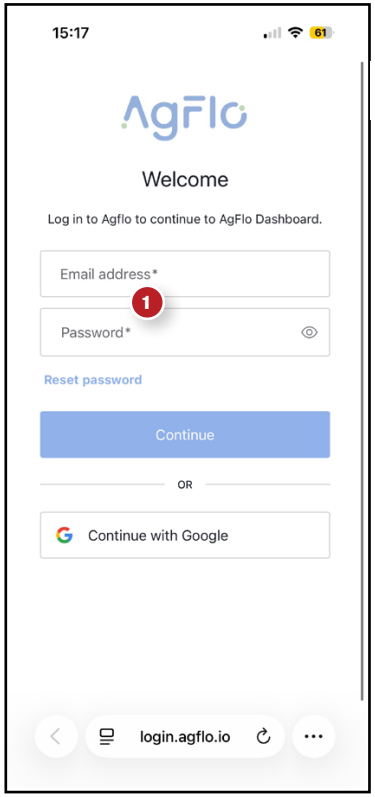


1. Scan the Installation QR code located on the side of the sensor.

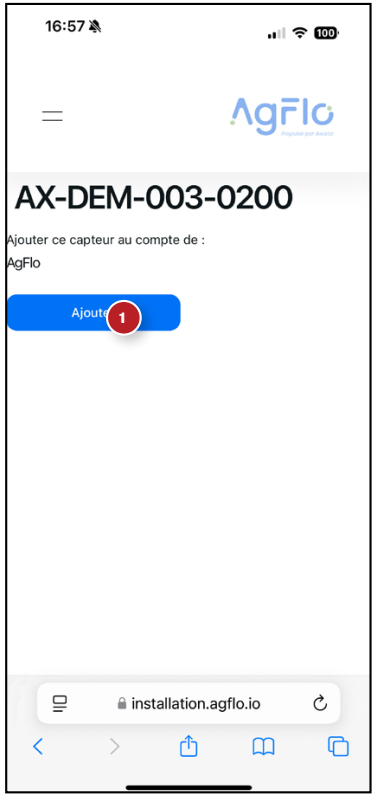


Authentication

1. Click to authenticate. you can access the installation page with this link : https://installation.agflo.io



1. Enter the ID and password supplied by the AgFlo team.



1. Click on “***ajouter”*** to add the device to your account.



1. Click on “***Débuter l’installation***”.

   This action is not mandatory, but facilitates the validation of the network connection. It forces the unit to connect repetitively to the network for 15 min.

Once the installation mode is enabled, this mention will show up.

Mode installation activé

2. Battery Connection

2.1 Connecting the battery

- Loosen the lid screws and turn the lid counterclockwise to remove it.
- Flip the battery pack upside down to expose the battery connectors and attach the blue connector to the battery pack.
- Make sure you see the LEDs turn on after a few seconds. This will confirm that the unit is powered on.

2.2 Activating Installation Mode**

- Press and hold the blue installation button (see below) for approximately 5 seconds, until you hear the motor activate.



- The sensor will search for the best available cellular network. Wait until the LEDs turn off (this step may take a few minutes).

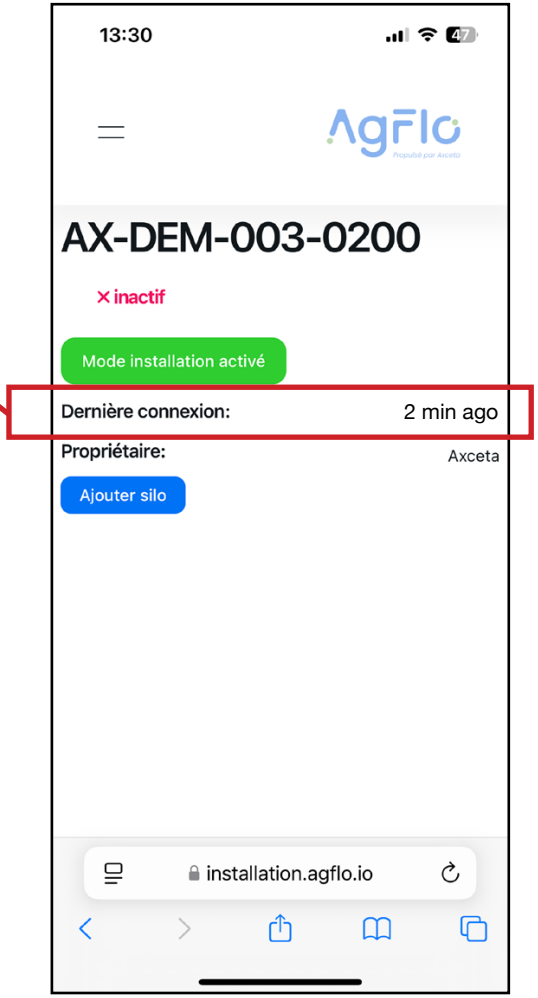
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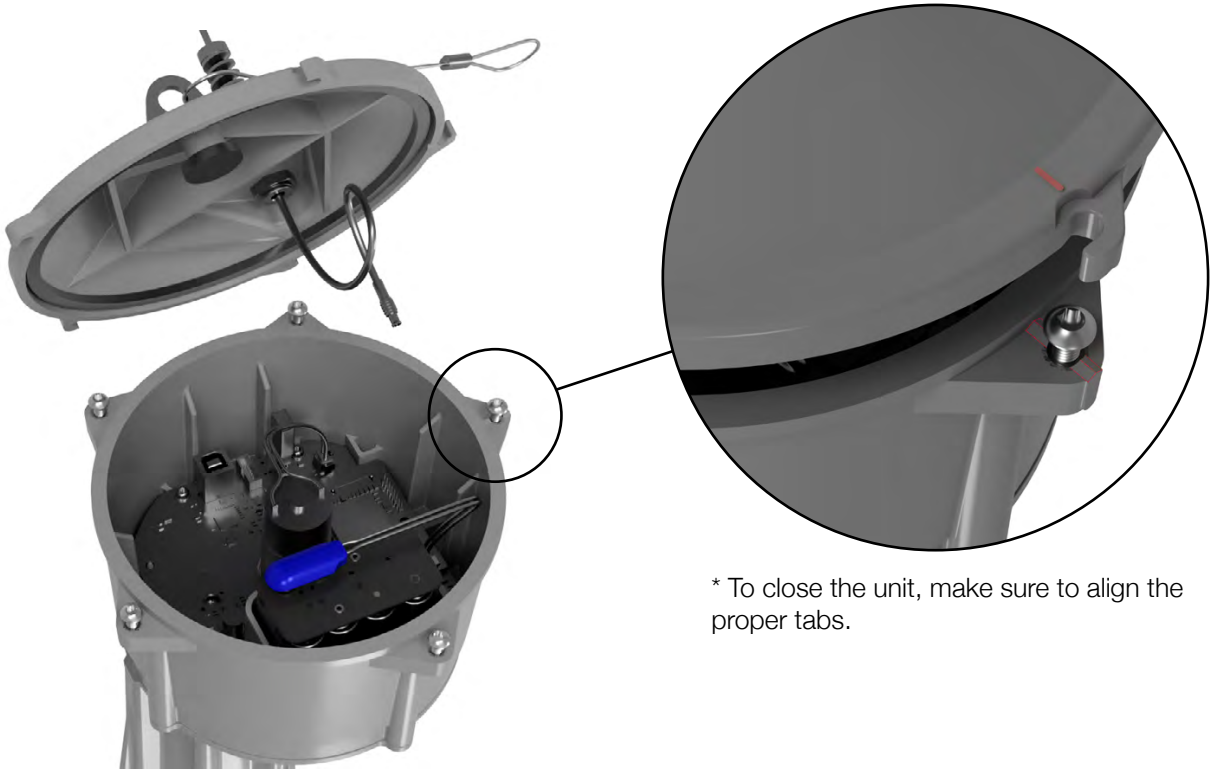
***** Once installation mode is activated, the sensor will make five consecutive connections, five minutes apart.***

- Check the application to confirm that the unit has connected within the last few minutes.
- If the unit has not connected, refer to the Troubleshooting section.

2.3 Closing the unit

- To put the lid back in place, align the tabs, engage the lid tabs under the screws and tighten the screws (recommended torque: 2 Nm).





* To close the unit, make sure to align the proper tabs.

3. Device Installation

1. Secure the unit by attaching the clamp to the edge of the bin, underneath the gasket.

2. Position the unit as far away as possible from the feed inlet.

3. Make sure the gasket is properly repositioned.

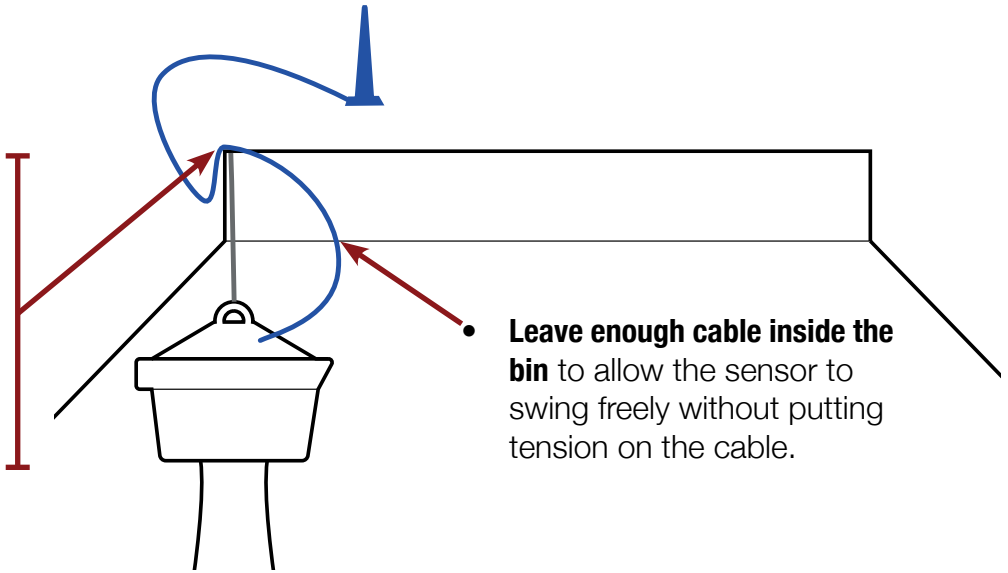
4. Install the magnetic antenna outside the bin, ideally on the lid, by attaching it to a metal surface.



- **Warning!**

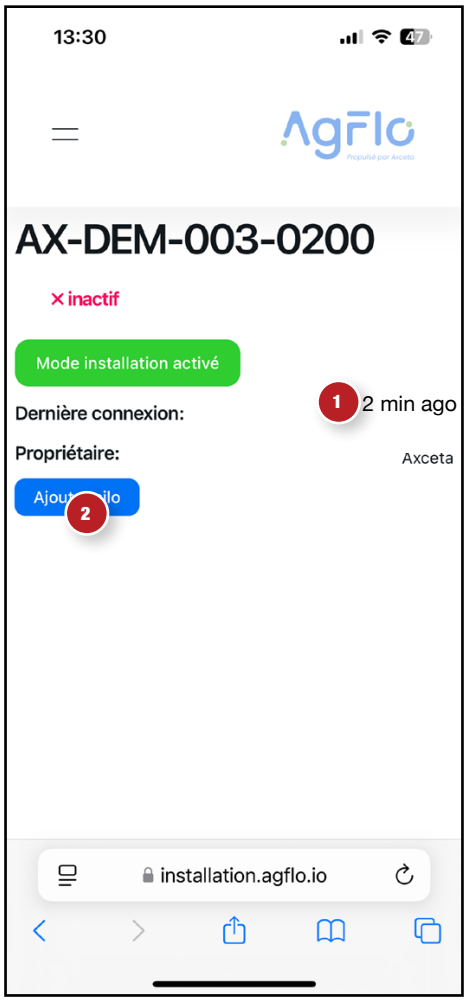
During installation:

- **Do not pull** on the antenna cable.
- Before closing the lid, **make sure the cable is not pinched, crushed, or subjected to excessive pressure.**
- If the gasket is missing or if the cable may be compressed, **add foam or other protective material to eliminate the pressure point.**



- **Leave enough cable inside the bin** to allow the sensor to swing freely without putting tension on the cable.

4. Bin Registration



1. Make sure that the device has connected to the network.
2. Click on "***Ajouter silo***" to start the bin configuration.



1. Enter a unique ID for the bin. We suggest: FarmName-Building#-Bin# or FarmName-BinUniqueID.
2. Click on "***Sauvegarder***" to save the name.

* If the bin already exists in the system, it will show up in the drop-down list.



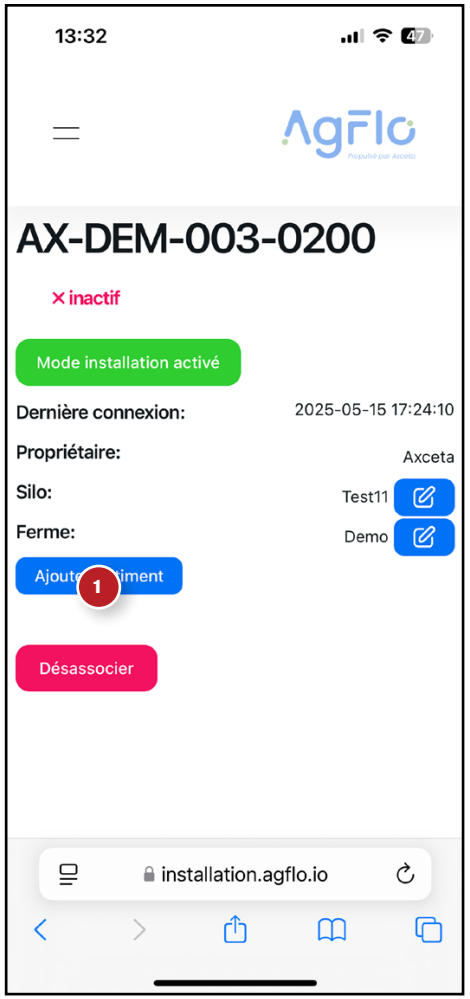
1. Click on "***Ajouter ferme***" to enter the farm name.



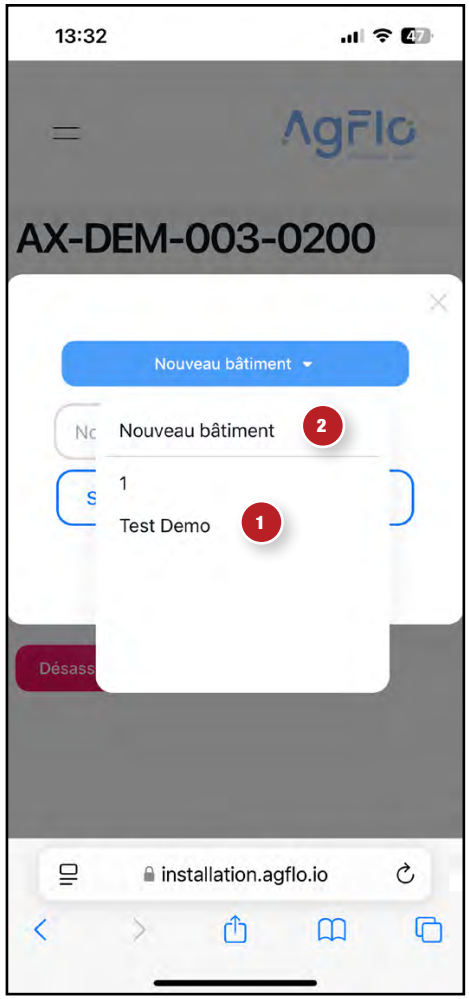
1. If a farm has already been defined for another unit, the farm name will be displayed in the drop-down menu and can be directly selected.

or

2. Enter a new name by selecting "***Nouvelle Ferme***".



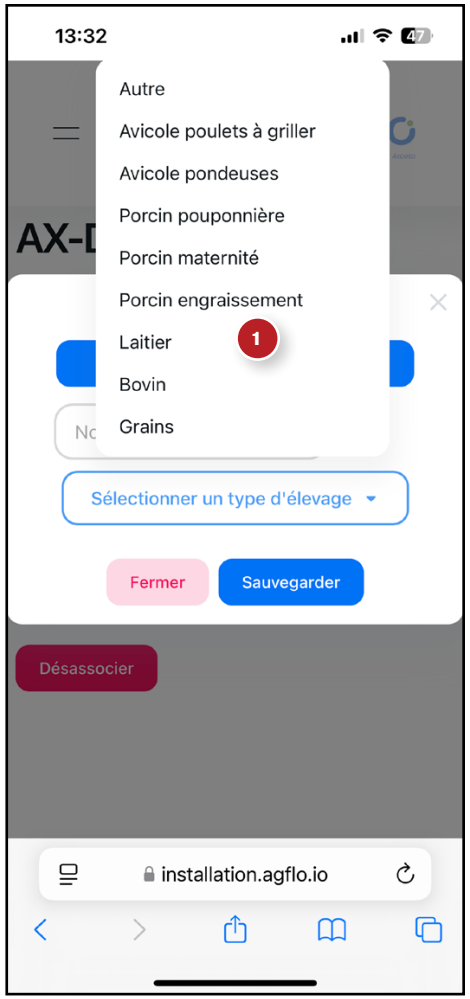
1. Click on "***Ajouter bâtiment***" to add a building number or ID.



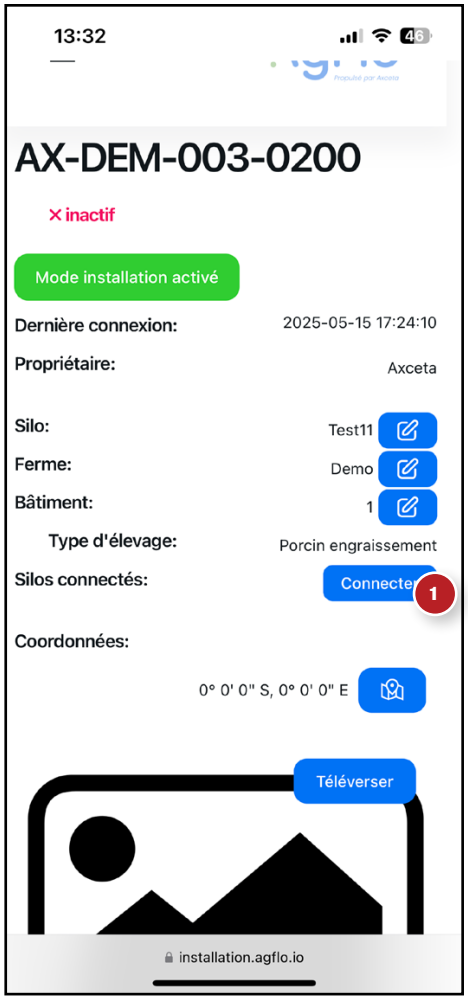
1. If a building has already been defined for another unit, the building name will be displayed in the drop-down menu and can be directly selected.

   or

2. Enter a new name by selecting "***Nouveau bâtiment***".



1. Select the type of livestock.
2. Save the information.



1. If the bin is connected to another one (tandem, trio, etc.) and you are registering the second bin, click on "***Connecter***" to link the bins in the system.
2. Select the connected bin in the drop-down menu.



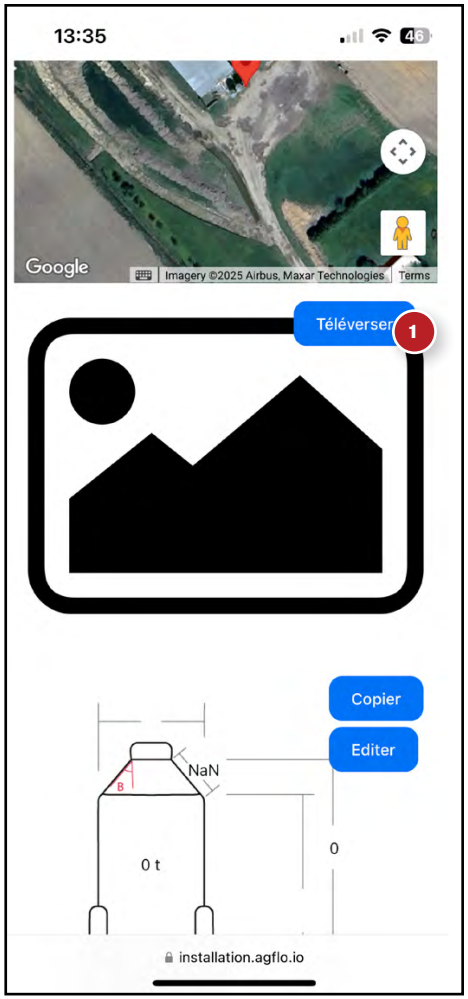
Add GPS location

3. Click on the icon to locate the bin on the map.

You need to allow the browser to access your location data.

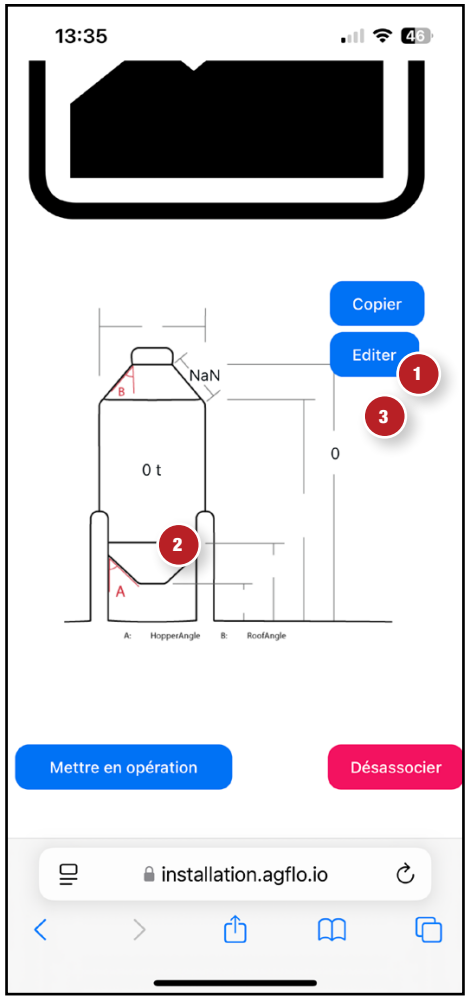


1. Locate the bin on the satellite view and click on the exact location.
2. Click "***Sauvegarder***" to save the data.



1. Click to add a picture of the bin.

   Make sure to capture the full bin from top to bottom.



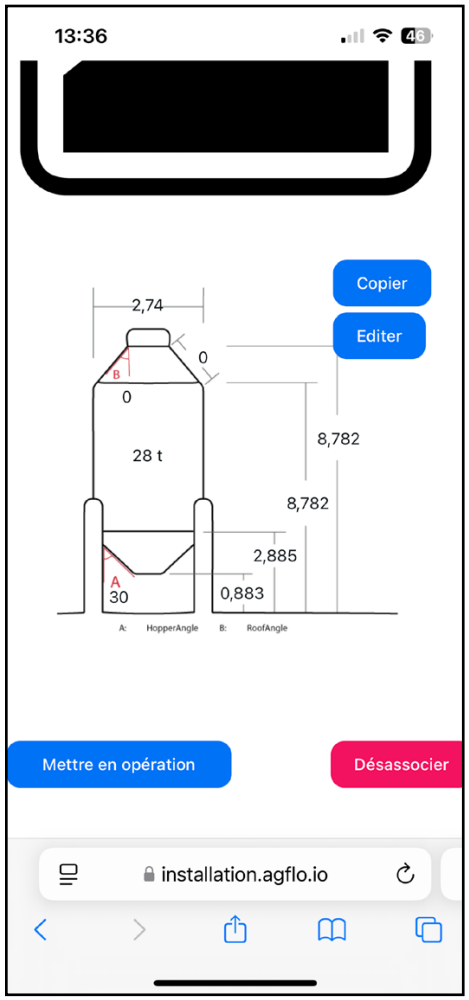
5. Bin Measurement:

1. Click on the button "***Éditer***".
2. Enter the dimensions (see section: "Feed bin dimensions").
3. Click to confirm and save.



If you already registered an identical bin, you can copy the dimensions by:

1. Click on "***Copier***".
2. Enter the first letter of the bin's ID you want to copy.
3. Select the bin's name in the drop-down menu and click "***Copier***".



6. Data Validation

1. When all data is entered, click on "***Mettre en opération***" to confirm and start the feed monitoring.
2. If there is an error message, correct the missing information and click "***Mettre en opération***" again.

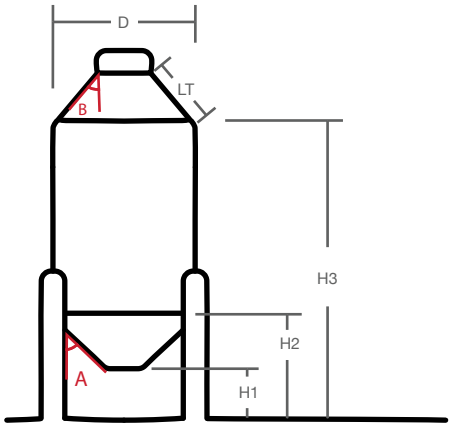
   *Make sure to confirm and save the info in each section before clicking "**Mettre en opération**".*



1. The "***actif***" mention confirms that the sensor has been configured correctly.

The data will show up in the dashboard +/- 12h after the configuration.

Feed Bin Dimensions

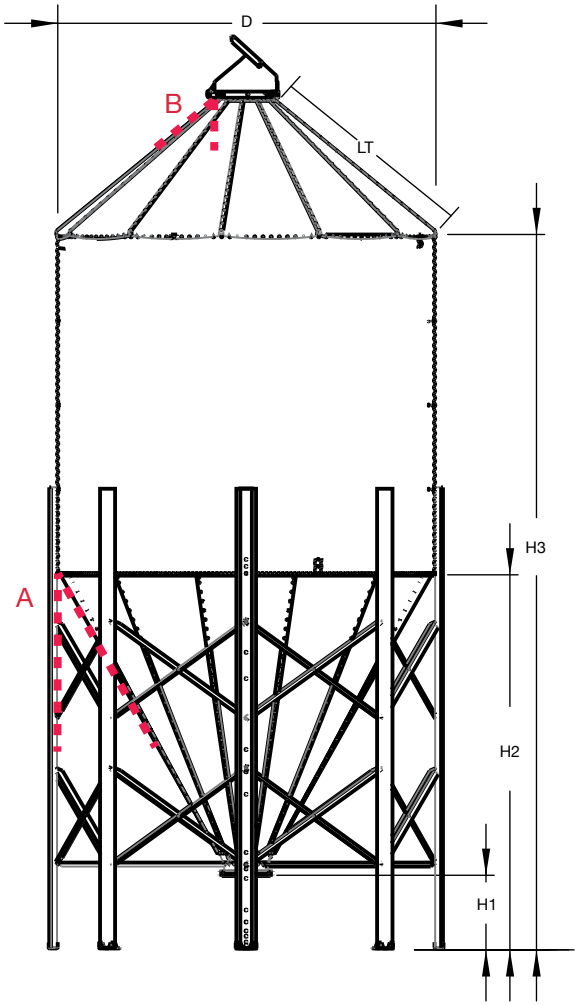


D: Bin diameter
LT: Roof length
H1: From the ground to the bottom of the bin
H2: From the ground to the top of the hopper
H3: From the ground to the top of the cylinder
A: Hopper angle
B: Roof angle

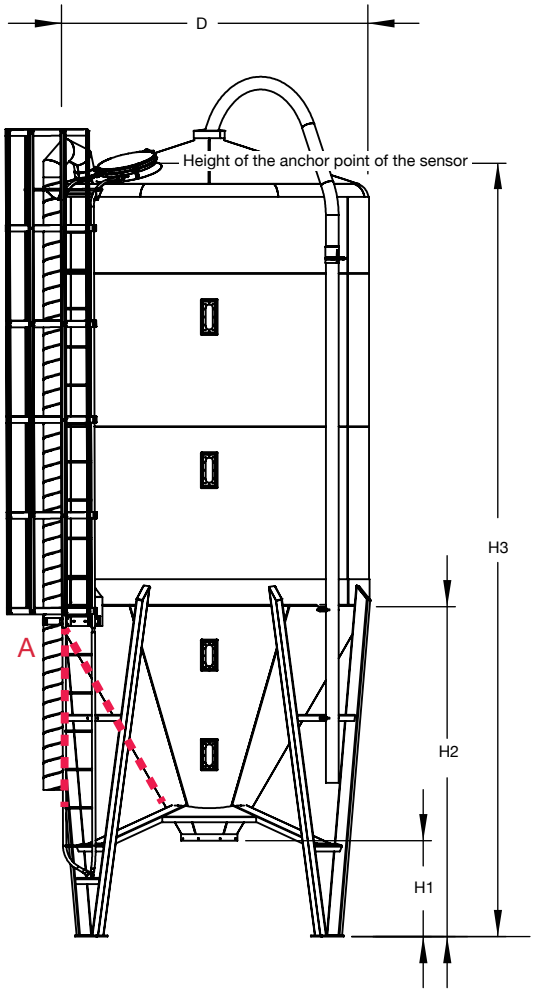
All dimensions must be input in meters.

All angles must be entered in degrees. They can be easily measured using a smartphone. The 0 degree reference is the vertical.

Bin with central opening.



Bin with offset opening



With this configuration, the roof angle should be set to zero and H3 is the measurement from the ground to the point where the clip of the unit is fixed on the rim.

Tips for Bin Measurements

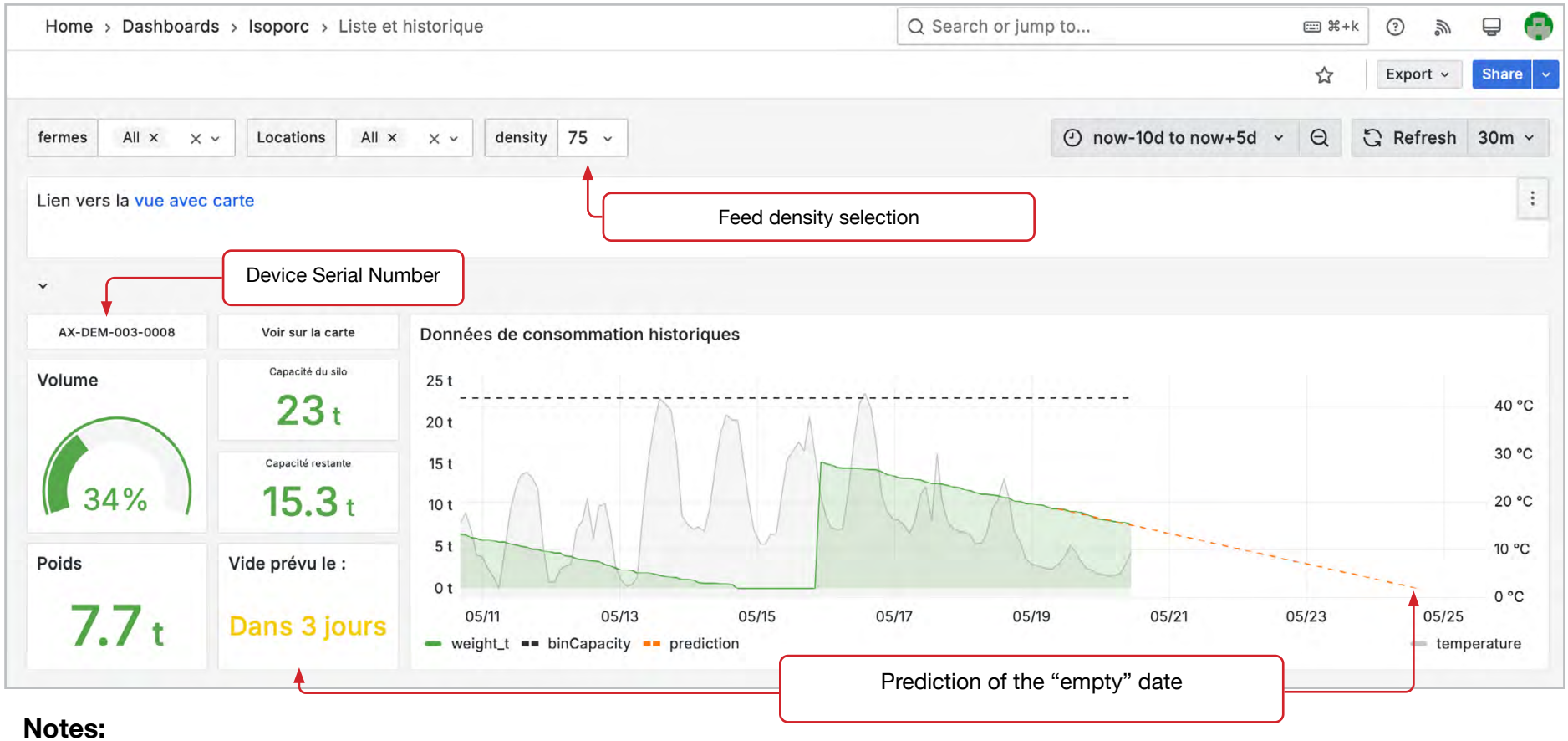
The diameter can be obtained by measuring the distance between opposite legs. Validate this measurement on at least two or three pairs.

Depending on the situation and dimension to be measured, using either a laser distance measurer or a measuring tape will work best.

⚠ Be careful! Mistakes in measurements or data inputs will have a significant impact on data accuracy.

Data Visualization

You can access the dashboards at the following address: https://dashboard.agflo.io
The username and password will be provided by the AgFlo team.



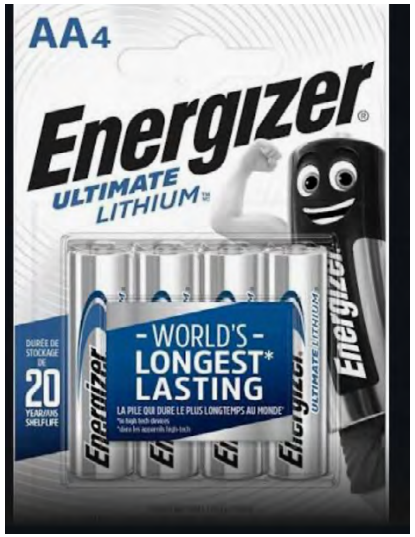
Notes:

- The weight is calculated using an average density. This can be adjusted at the top of the dashboard.
- The prediction is based on the most likely consumption, determined using data from the past 2 to 6 days.
- The meaning of the different predictions is as follows:
  - **Empty**: The silo is already empty or nearly empty
  - **In X hours/days**: Indicates the estimated time until the silo will be empty
    - If the prediction ends with the symbol **“~”,** the prediction has a higher uncertainty
  - **7+**: The system will not provide predictions beyond 7 days
  - **No consumption**: There is no consumption (e.g., the building is empty) or there is not enough historical data to determine consumption
  - **Unavailable**: The prediction is not available for this silo at the moment (due to missing data or another issue)

Battery Replacement

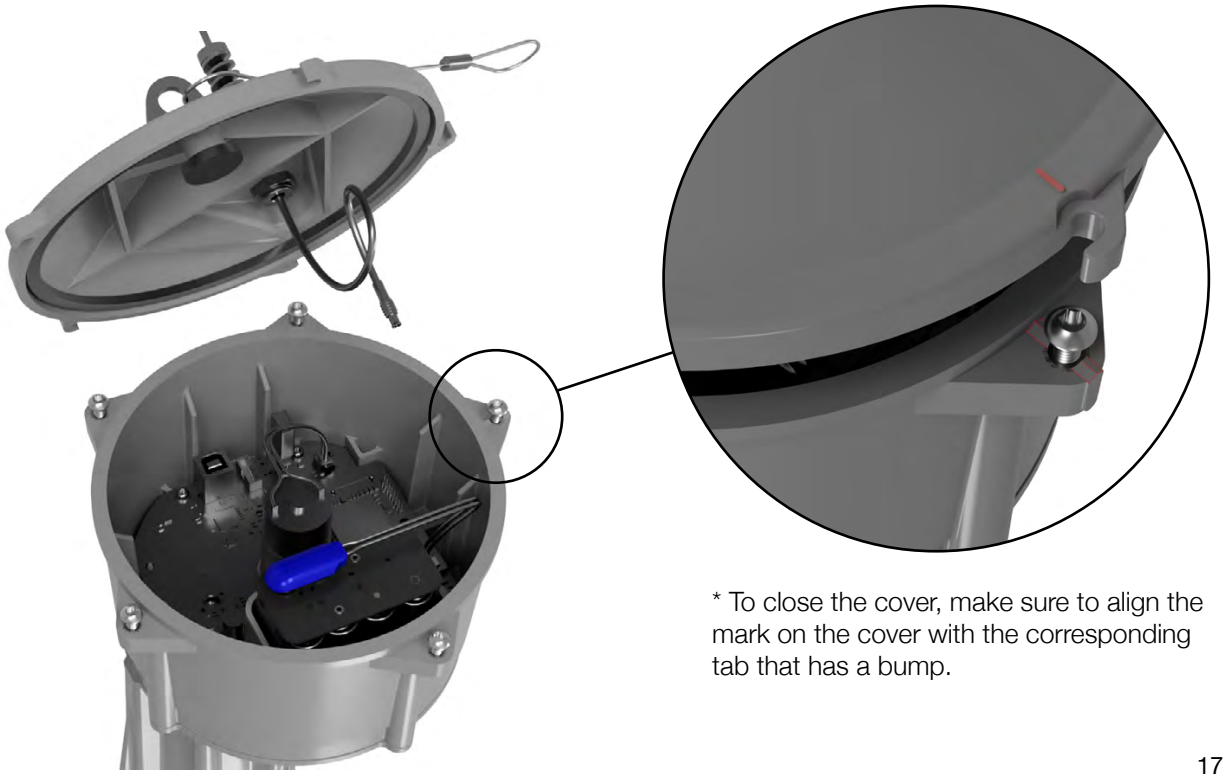
Required materials:

- 8 AA batteries.
  Using **lithium batteries is mandatory** to keep the sensor working properly
- T20 Torx screwdriver



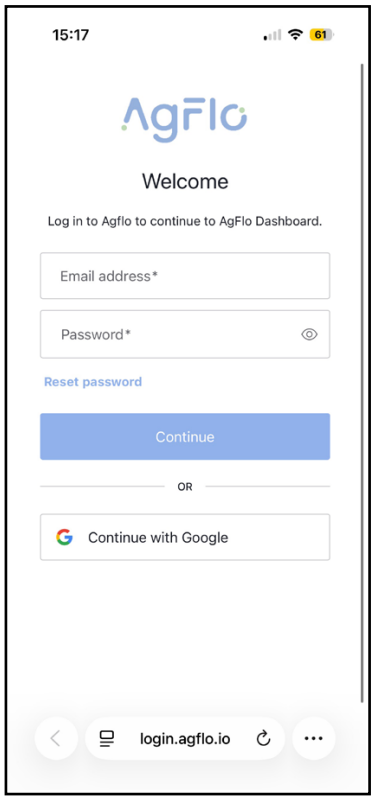
Procedure:

1. Once the unit is retrieved from the silo, partially unscrew the screws to free the cover and allow it to rotate counterclockwise.
2. Once the unit is open, disconnect the connector (highlighted in blue in the image) from the battery pack and remove the pack.
3. Replace the batteries, reinstall the battery pack in the unit, and reinstall the battery connector.
4. Once the connector is plugged in, you can close the unit and return it to the silo.



* To close the cover, make sure to align the mark on the cover with the corresponding tab that has a bump.

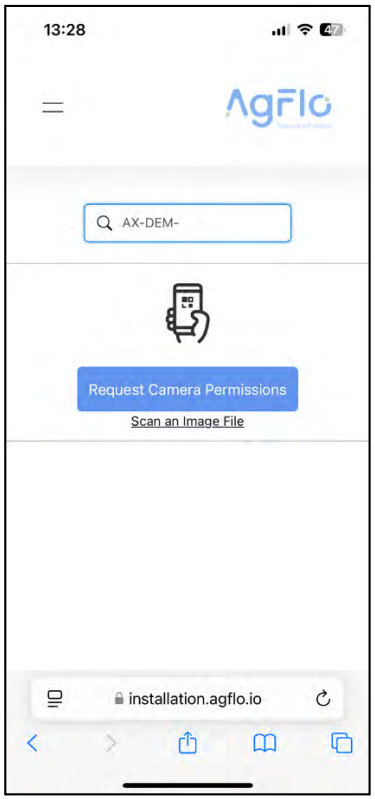
Device replacement



Authentication

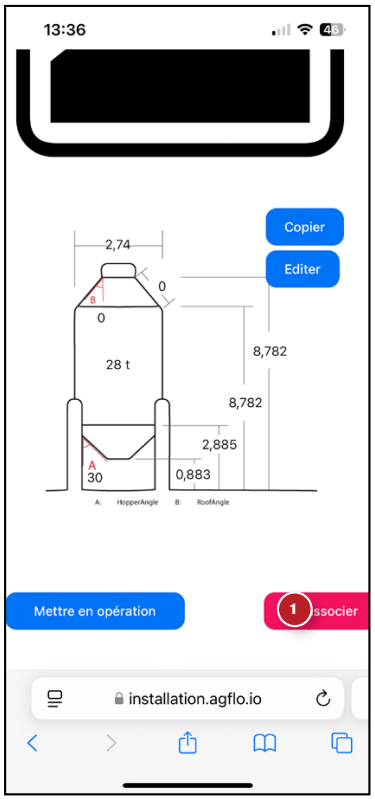
1. Authenticate with your credentials.

   https://installation.agflo.io



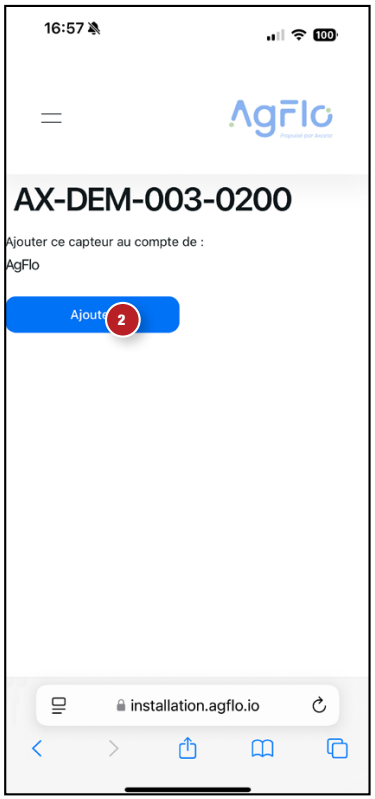
Sensor lookup

1. Scan the installation QR code or enter the serial number of the device you want to remove.



1. Unpair the sensor from the bin by clicking the button "***Disassociate***" at the bottom of the page.

Device replacement



Registering a new device

1. Scan the installation QR code of the new device.
2. Click "***Ajouter***" to register this device to your account and begin the installation.



Device installation

1. Click on "***Débuter l'installation".***
2. Connect the battery.



1. Validate the time of the last connection to ensure a good cellular connection.
2. If the time doesn't match the moment the battery was connected, try unplugging it, wait 10 seconds, and plug it back in (repeat if needed).



Finalize the configuration

1. Scroll to the bottom of the page and click "***Mettre en opération***" to complete the configuration.

Connectivity problems

Main Causes of Sensors Not Communicating

- Limited or unavailable cellular coverage
- Damaged antenna cable
- Sensor experiencing network operator selection issues
- Defective SIM card
- Sensor requiring a manual restart

Troubleshooting Procedure

To get the sensor back online as quickly as possible, follow the steps below.

1. Inspect the Sensor and Antenna Cable

Check the cable for:

- cuts;
- severe pinching;
- damaged sections.

If the cable is cut or severely damaged, stop the procedure and contact us.

If there is no visible damage, proceed to the next step.

2. Restart the Sensor and Check the Connection

- Open the sensor;
- Disconnect the batteries;
- Wait 10 seconds;
- Reconnect the batteries.

To check whether the connection has been restored:

Verify the connection in the portal by following these steps:

- scan the sensor's installation code;
- check the time of the last connection displayed at the top of the page.



If the sensor still does not connect, proceed to the next step.

3. Check the SIM Card

- Disconnect the batteries;
- Remove the battery pack;
- Gently press the SIM card to release it slightly, without removing it completely;
- Push the SIM card back in until it is securely seated;
- Reinstall the battery pack and reconnect the batteries.

This procedure can restore the SIM card connection if poor contact has occurred.

Check the connection in the portal again.

4. If the Sensor Still Does Not Connect

- Disconnect and reconnect the batteries. If your device has a blue button, press and hold it (see page 6) until you hear the motor run (approximately 5 seconds). This will force an extended network operator search.
- If the problem persists, contact us. We will help you resolve the issue. support@agflo.io

LED Light Meanings

The LEDs light up when the device is operating.

Step 1: Startup

Step	Green LED	Red LED	Meaning
Startup	ON	ON	Start of a cycle
Initialization	Flashes slowly (every 2 seconds)	OFF	Device initialization

Step 2: Cellular Network Connection

Is there a network connection?

Yes

Step	Green LED	Red LED	Meaning
Network connection	Single flash	OFF	Establishing connection
Data transfer	Double flash	OFF	Connection established and data transfer in progress

No

Step: End of Cycle

The device displays an LED status code.

Result	Green LED	Red LED	Meaning	Action
Success	ON (for 2-3 seconds)	OFF	Cycle completed successfully.	
Network connection issue	ON	Flashing	The sensor was unable to connect to a network.	Try restarting the connection cycle by disconnecting and reconnecting the batteries.
Critical fault	OFF	ON	The sensor has detected a hardware issue.	Contact AgFlo.
Configuration issue	OFF	Flashing	The sensor has detected a software issue.	Contact AgFlo.
SIM card issue	OFF	Flashes twice rapidly, then pauses	The SIM card is defective.	Contact AgFlo.

If the cycle does not appear to complete, the batteries may no longer have sufficient voltage.