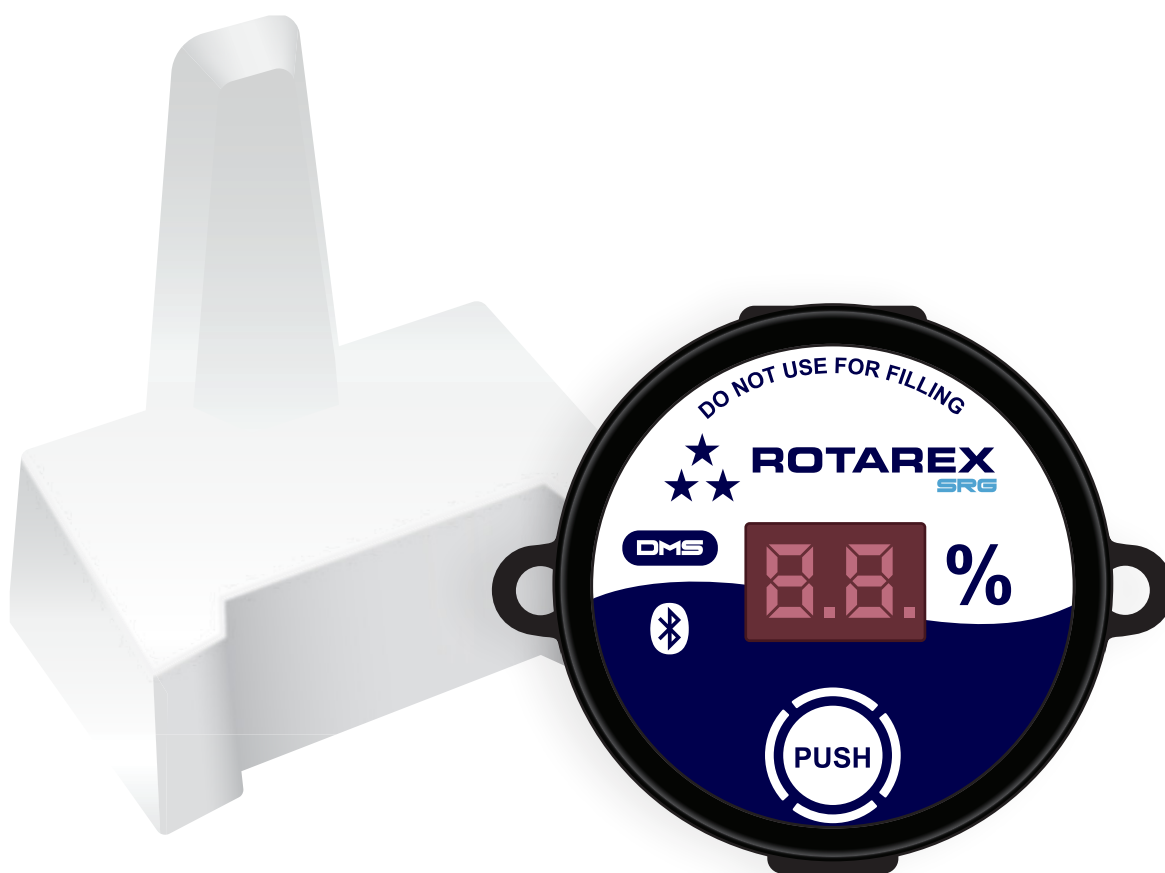




Software Procedure

Rotarex ELG-BLE



Original instructions

Read this manual before using the equipment

Retain this manual for future use

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Intended purpose

The purpose of this guide is to provide instructions and information for the onboarding of the Rotarex ELG-BLE to the Otodata Nee-Vo Portal.

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*Only North America. Only call this number in an emergency.

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1 Safety Information

This section provides an overview of all safety aspects for the protection of people as well as safe and uninterrupted operation. Other task related safety instructions are included in the specific sections.

1.1 Safety notices

The following safety notice formats are used in this guide. Safety notices are used at the start of sections or embedded in operating instructions.

Make sure you fully understand and comply with the notices in this guide.



DANGER

Risk of death!

Indicates a hazardous situation which, if not avoided, could result in death.

WARNING

Risk of serious injury or death!

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Caution

Risk of serious injury or damage!

Indicates a hazardous situation which, if not avoided, could result in serious injury or damage to your equipment.



Notice

Indicates an important situation which, if not avoided, may seriously impair operations.



Information

Additional information relating to the current section.

1.2 Special safety instructions

To indicate specific hazards, this guide uses the following symbols.

Table 1 • Hazard symbols

Make sure you fully understand and comply with the notices in this guide.

Symbol	Meaning
	General warning
	Hazardous substance
	Electrostatic charging hazard
	Explosion hazard
	Crush or trapping hazard

1.3 Intended use

The Rotarex ELG-BLE is intended exclusively for use in accordance with the information and safety instructions provided in this guide. The monitor is to be used for measuring and recording the level of a substance in a tank.

Intended use includes compliance with all the information and safety instructions in this manual. Any use that deviates from, or goes beyond the intended use or ignores the safety instructions in this guide or the identification labels on the device, is considered misuse.

WARNING

Danger due to misuse!

Only operate the device if it is in an undamaged and orderly condition.

Observe all warning information on the identification labels on the device.

Never deviate from the prescribed maintenance intervals and procedures.

Never modify or attempt to modify the device.

WARNING

The installation of this device is reserved only for trained personnel and must be approved by the safety body having jurisdiction.

These instructions are made to assist technicians familiar with liquid storage tank equipment. Most consumers are not qualified to perform the installation described herein. If you have any questions concerning installation or operation of this product, contact Otodata or one of our authorized distributors for assistance.

WARNING

Equipment is intended for fixed and grounded installation only.

This sensor is a component part designed for use on Liquid Fuel Tanks and Tanks or Cylinders for liquefied gases like propane/butane (LPG) or similar.

WARNING

The sensor housing material is made of plastic with sensitive electronic components and batteries inside.

- Do not pierce, break, crush or cut the device or the battery.
- Do not expose the device or the battery to an open flame or extremely high temperatures.
- Do not expose the device or the battery to liquids or extremely low air pressure.

1.4 Operating environment

**WARNING**

Risk of serious injury or damage!

Potential electrostatic charging hazard. Do not use or install in areas with high electrostatic charge.

Do not pressure wash.

To clean the device, wipe only with a damp cloth and let air dry.

2 Before you Begin

What you'll need:

- 📶 **A connection to the internet** (cellular network)
- ↓ **The latest firmware (v3.182 or later)** installed on the Otodata Telemetry Monitor. See below.

2.1 Update firmware

Firmware updates are performed using the Nee-Vo Tech App. Follow the steps below to learn how to initiate an update:

- 1. Log in:** Log in to the Nee-Vo Tech App using your Nee-Vo Portal username and password.
- 2. Connect:** On the home screen, tap Device Center. Then choose one of the three methods provided to connect to your device.
- 3. Update:** An *Update* button will be displayed on the *Device Checkup* screen if one is available. Press Update to install.



Information

For detailed instructions, see the **Nee-Vo Tech App User Manual**, available on the Nee-Vo Portal (<https://neevo.otodata.ca>).

Once logged in to the Portal, click Help in the main menu, then Help Center. Go to Documents, and download the manual.

Name: **Nee-Vo Tech App User Manual**
Document SKU: **GRA-0096**

If you need assistance, contact Otodata Support (see "Contact information" on page 2).



3 About the Device



Notice

The Rotarex ELG-BLE is dependent. A telemetry monitor is required for the device to connect to the Nee-Vo Portal.

The Rotarex ELG-BLE is **for reference only** and should not be used to indicate the maximum fill level during filling operations.

The Rotarex ELG-BLE is not an Otodata product. Otodata does not sell, supply, or install this device.

3.1 Regulatory

Federal Communications Commission (FCC)

This device complies with part 15 of the FCC Rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device is compliant with Industry Canada's RSS standards for license-exempt radio apparatuses.

Authorized use depends on the following two conditions: (1) the device must not create radio interference, and (2) the device user must accept all radio interference, even if this interference could potentially impair its functioning.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

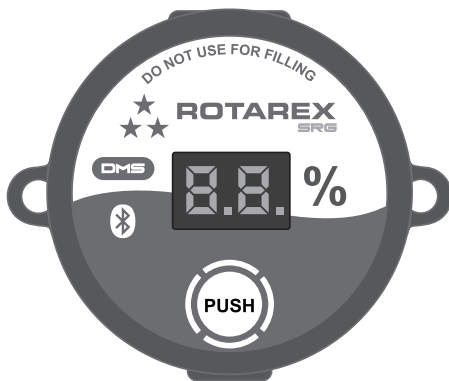
Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

To comply with FCC RF exposure compliance recommendations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

3.2 Device overview



The Rotarex ELG-BLE (Bluetooth Electronic Level Gauge) uses capacitive sensing technology to measure the liquid level in LPG (propane/butane) cylinders and tanks. Unlike traditional float gauges, the ELG-BLE has no moving parts, improving accuracy, reliability, and durability.

When paired with an Otodata Telemetry Monitor (TM), the ELG-BLE provides wireless tank level monitoring for LPG and other compatible liquid fuel applications. The ELG-BLE is paired with a TM through the Nee-Vo Portal, and the TM serves as the cellular gateway for transmitting level data.

Press the PUSH button to display the current tank level as a percentage. The ELG-BLE is battery-powered, fully autonomous, and contains no serviceable parts.

Key Features

- Adjustable sampling interval (12 hours by default)
- Transmits level readings to the Telemetry Monitor via BLE every 2.2 seconds
- Digital display with 1% volume increments
- System accuracy of $\pm 1\%$
- ATEX, IECEx, and HazLoc compliant
- Excellent UV and weather resistance
- Operating temperature: -40°C to 60°C (-40°F to 140°F)
- IP57-rated ingress protection
- Over-the-air firmware update capability

4 Onboarding

4.1 Preparation

4.1.1 Firmware



Notice

The latest firmware is required for correct functionality (v3.182 or later). Ensure you have the latest firmware installed on the Otodata Telemetry Monitor (TM) before proceeding. See "Before you Begin" on page 5.

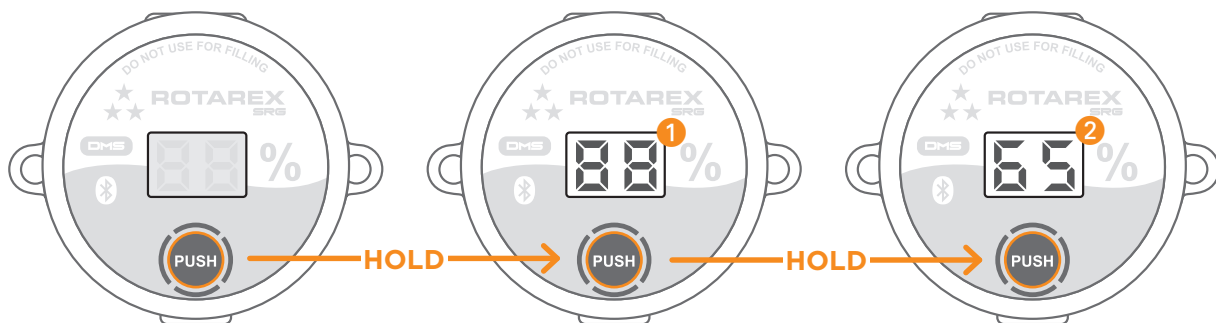
If you need assistance, contact Otodata Support (see "Contact information" on page 2).

4.1.2 Enter Protocol mode

In order to be recognized by the Telemetry Monitor, the gauge must be put into Otodata Protocol Mode.

- a. To do so, **press and hold** the PUSH button for approximately **10 seconds** or until the following sequence is complete:

The display flashes the numbers "88" ❶ then the live level reading appears ❷.



- b. Release the button. Display will turn off.

You have successfully activated Otodata Protocol Mode.

4.2 Configuration (Nee-Vo Portal)

4.2.1 Pair the Rotarex ELG-BLE with a telemetry monitor

Notice

This step is critical. Must be completed before proceeding to ensure the ELG-BLE is correctly configured and fully operational.



Pair the ELG-BLE to its designated Otodata Telemetry Monitor. To access the pairing guide, follow the steps below:

1. Visit www.otodatatankmonitors.com/docs
2. Select **Rotarex ELG-BLE** from the product list
3. Then, click the [How to Pair Wireless Sensors](#) button to download the guide and follow the steps indicated.

4.2.2 Tank setup and configuration

Notice

Before proceeding, ensure you have:

- 1. Outer dimensions of the tank, width and depth:** If *single-walled*, measure from wall-to-wall. If *double-walled or manifolded*, measure from the welding line to the tank wall.
- 2. Tank Height:** measured by dip stick for maximum accuracy.
- 3. Paired the ELG-BLE** with a telemetry monitor and verified that the status is OK. See "4.3.1 Pair the Rotarex ELG-BLE to a telemetry monitor".

a. In the Nee-Vo Portal, select Tanks in the main menu, then Devices.

b. Enter the Telemetry Monitor's serial number (S/N) into the searchbar located in the upper left corner of your screen, and click Search ①.

Once found, click the arrow icon ② to the left of the serial number (S/N). This will open the Connected Sensors drawer.

c. Under *Wireless Sensors*, click the ELG-BLE's ID ③ (MAC address) to open the *Edit* page.

d. On the Edit page, go to the Tank section and input all necessary information ④ (e.g. Tank Serial Number, Tank Format, Product, etc.)

Notice

If you cannot find an accurate option in the Tank Format drop-down list, you must create a custom tank shape. See next step.

4.2.3 Create a Tank Format

Notice

Before proceeding, ensure you have the following:

- 1. Outer dimensions of tank, width and depth:** If *single-walled*, measure from wall-to-wall. If *double-walled or manifolded*, measure from the welding line to the tank wall.
- 2. Tank Height:** measured by dip stick for maximum accuracy.

In the event that you are required to create a custom tank format because no accurate options exist, follow the steps below.

- On the tank's *Details* page, click the Create button to the right of the *Tank Format* dropdown list, or click Config from the main menu, then Tank Formats.
- Then, click the Create a tank format button to the upper right of the screen.
- Input all necessary information including its *Construction Material*, the *Tank Shape*, and its exact dimensions.
 - To learn more about Tank Shapes, see "A—Available tank shapes" on page 12.
 - If no accurate Tank Shape exists, see "B—How to create a custom tank shape" on page 12.
- Once done, click Save.

Information

Once saved, certain fields, such as Product and Construction Material, cannot be edited. If a locked field is incorrect, create a new Tank Format.

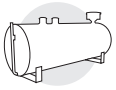
Notice

Selecting a Product limits a tank shape to tanks associated with that product. Example: if *Propane* is selected, the tank shape will only be available for propane tanks. Leave this field blank to make it available for *all* tanks.

The screenshot shows the 'Add Tank Format' form. It includes fields for Name, Manufacturer, Model, Product (dropdown), Construction material (dropdown), Tank Shape (radio buttons for Horizontal Cylinder, Vertical Cylinder, Rectangular, Horizontal Oval, and Vertical), Width (A) in inches, Height (B) in inches, Depth (C) in inches, Offset in inches, Capacity in gallons, Usable Capacity in %, Tare Weight in pounds, and buttons for Close and Save. A diagram of a horizontal cylinder tank is shown with dimensions A (width), B (height), and C (depth) labeled. A question mark icon is next to the diagram.

A—Available tank shapes

When creating a custom Tank Format, you can use the following Tank Shape templates as a starting point.



Horizontal Cylinder

Width and Height are usually equal.



Vertical Cylinder

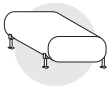
Width and Length are usually equal.



Rectangle

Cube, rectangular vertical, or rectangular horizontal tanks belong in this category.

► Miscategorizing Rectangular tanks as Horizontal Cylinders will impact data accuracy.



Horizontal Oval

Height: shortest measurement.
Width: can be longest.



Vertical Oval

Width: shortest measurement.
Height: can be longest.



Horizontal Capsule

Dimension A: Diameter of the capsule, Dimension B: Radius of end cap, Dimension C: Total length end-to-end of capsule.



Custom

Create your own Tank Shape. Useful for irregular tank shapes.

B—How to create a custom tank shape

For irregular shaped tanks, you can create a custom shape.

- From Tank Shapes, select the question mark icon (?) from the list.
- Under Strapping Chart, click the plus button above the table to create a new row and input the tank's Height and Volume (capacity) for each distinct section of the tank. Example: Top section ❶, bottom section ❷.
- Once done, click Save.

Add Tank Format

Name
[Custom] L shape: top 40in x 30g / bottom 80in x 60g

Manufacturer
Otodata

Model
TK968520H5000

Product ?

Construction material ?
Plastic

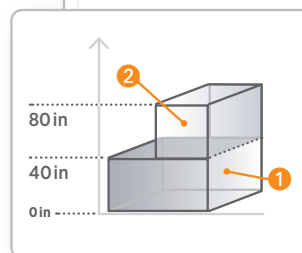
Tank Shape

Irregular Horizontal Oval Vertical Oval Horizontal Capsule Custom

Strapping Chart

↑ Height	Volume
0 in	0 gal
80 in	60 gal ❶
40 in	90 gal ❷
80	

Save



4.3 Validate installation

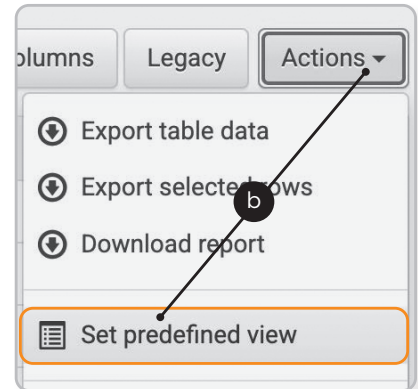
Information

First report available within 24-hours of install. Reports include hourly readings.

4.3.1 Set predefined view

- Navigate to [Tanks](#) > [Monitored Assets](#).
- Click the [Actions](#) button in the upper right corner of your screen. Then, [Set predefined view](#).

Select [Level Sensor \(default\)](#) from list, then click [Confirm](#).

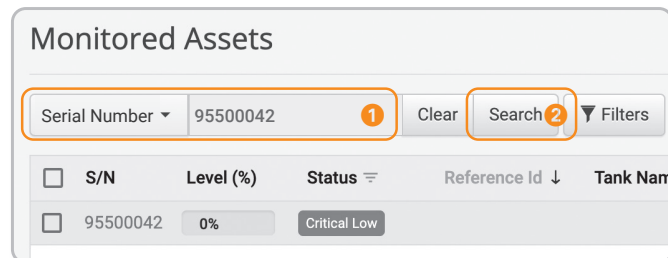


4.3.2 Locate your paired devices

Locate your paired devices two ways:

A—Via the Monitored Assets page

Either select [Serial Number](#) ❶ from searchbar's dropdown menu. Then enter the ELG-BLE's serial number into the searchbar and click [Search](#) ❷.

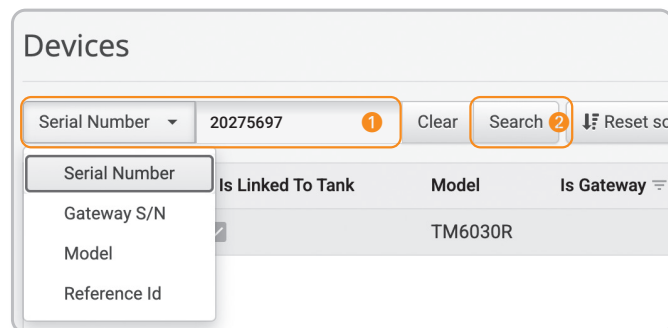


Once found, click the *serial number* (S/N) to open the *Details* page.

B—Via the Devices page

Click [Tanks](#) in the main menu, then [Devices](#).

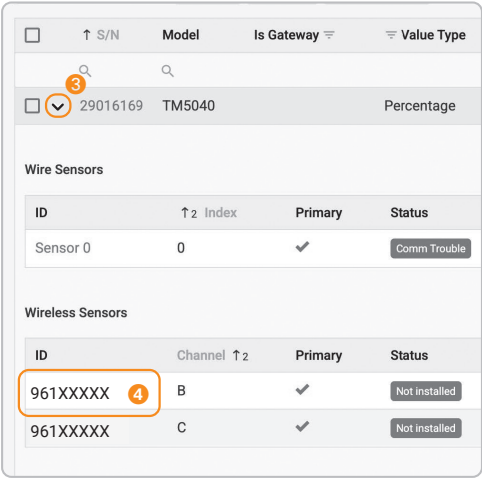
Select [Serial Number](#) ❶ from searchbar's dropdown menu. Then enter the Telemetry Monitor's serial number into the searchbar and click [Search](#) ❷.



Once found, click the arrow icon ❸ to the left of the serial number (S/N). This will open the Connected Sensors drawer.

Under *Wireless Sensors*, click the ELG-BLE's ID ❹ to open the *Details* page.

Once found, click the *serial number* (S/N) to open the *Details* page.

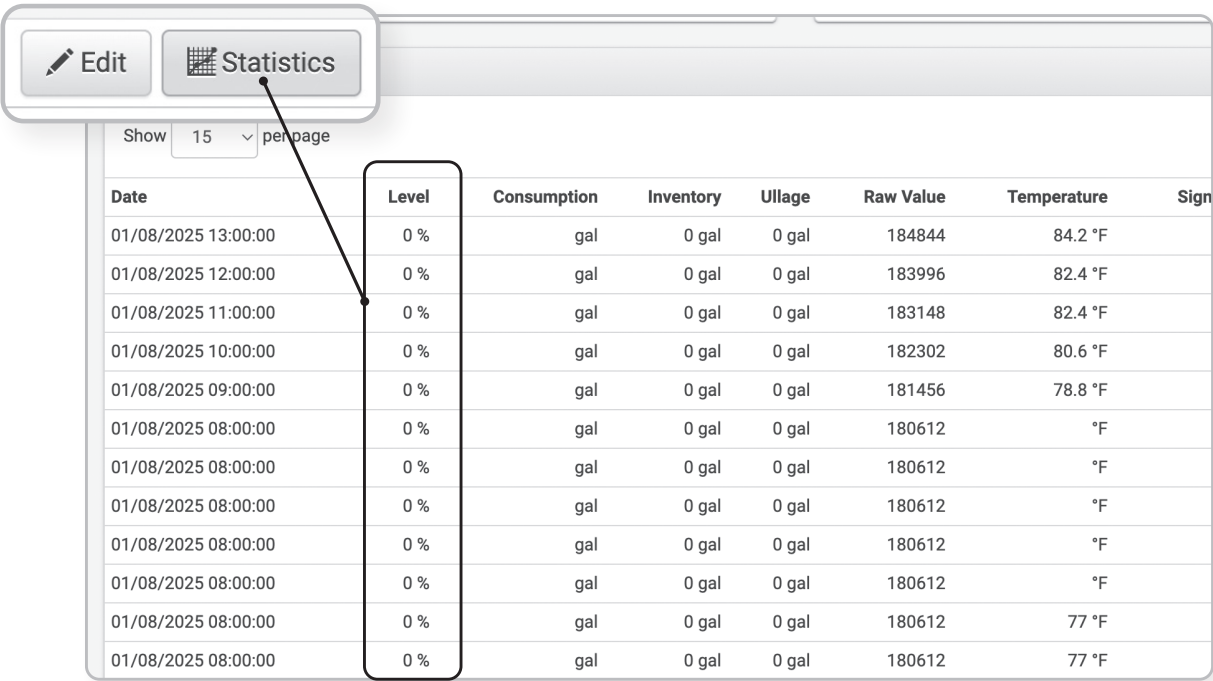


4.3.3 Review Statistics

On the Details page, click the Statistics button. Then scroll down to the Statistics table to see a log of all received readings.

Information

A successful install will produce decreasing Level (%) readings and a sharp increase when filled.



Installation validation complete.

Members can watch
step-by-step installation
videos and shop online



Sign up free today

otodatatankmonitors.com/membership

Members can purchase monitors and accessories like gauges, leads, mounting equipment and more via our online store.

IMPORTANT

Please take a moment to carefully read the installation instructions included with your monitors, and ensure you understand and respect local regulations.

ABOVE-GROUND TANKS

**Do not install monitors
under lids.**

UNDERGROUND TANKS

**Plastic lid suggested.
Metal lids will obstruct
signal.**

Reading installation instructions will ensure maximum monitoring performance on all your tanks and installations.