

Documentation on the EZsalt Sensor



How it works

Brine Tank



The EZsalt Sensor measures the distance between itself (The top of the brine tank) and the top of the salt. It then compares that measurement with the height of the brine tank that the end user enters into the app.

Formula

Height of brine tank - Distance measured by sensor = Difference.

Difference / Height of brine tank = Salt Level %

Sensor Info



The EZsalt Sensor uses a laser ranging sensor to measure the distance between itself and the salt.

Specs

- 1.2 meter range (4ft)
- Accurate within 1 cm
- Not great for measuring water
- Sensor glass needs to be cleaned bi-annually.

Connectivity



The EZsalt Sensor sends its data via Wi-Fi to our servers, then to the end-user's app. In order for the EZsalt Sensor to function it must be connected to Wi-Fi first.

Wi-Fi Info

- Works with any 2.4Ghz Wi-Fi signal.
- Needs a strong Wi-Fi signal to penetrate brine tank plastic.
- Saves encrypted Wi-Fi credentials locally so it can connect again if unplugged.

Not compatible with:

- 5GHz networks.
- Enterprise security protocols.
- WPA3.
- Mesh networks and Wi-Fi repeaters may prevent the sensor from connecting.

How to install the EZsalt Sensor

Using the tabs on the EZsalt Sensor as guides, drill two holes in the lid of the brine tank



Position the device so it's on the underside of the lid, facing down. Insert screw through holes and fasten them



If needed, drill an extra hole for the power cord. Plug in the EZsalt Sensor and replace the lid



Power Supply

Along with an EZsalt Sensor and mounting screws,
our packaging also includes:



A 6ft micro USB cable



A 5V USB wall adapter

Requirements for the EZsalt Sensor to work in a home.

- **A strong Wi-Fi connection** where the EZsalt Sensor will be installed. If their phone only gets 1 bar of internet connection, the sensor may not be able to connect. Also, the sensor only works with 2.4Ghz networks.
- **Available power supply.** The EZsalt Sensor requires a constant power supply to work. You will need an outlet within 6 feet of the device in order to power it. If there is no outlet available, your customer will need grab an extension cord or an outlet hub.
- **Properly functioning brine tank.** Some brine tanks overflow with water. The EZsalt Sensor does not read properly when the water line is above the salt. This problem will need to be fixed for the device to function properly.