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# TankMate TMR3 Tank Level Sensor User Guide

**Contents**

**TankMate TMR3 Tank Level Sensor**

## Product Information

The TankMate TMR3W Tank Level Sensor is a device designed to accurately measure the level of water in a tank. It comes with various components including the TMR3 Tank Level Sensor, O-ring, Lens, Blue rubber gasket, fixing screws, Masonry wall plugs, and a Magnet.

## Product Usage Instructions

1. **Step 1: Install the Gasket and Lens**
   - Insert the wall plugs (required for concrete tanks only).
   - Put the blue rubber gasket back into place – check that it is aligned with the center hole and fixing holes.
   - Insert the white plastic lens, with the rubber O-ring facing up.
   - **Important:** Press the READ button underneath the sensor before fixing it down onto the tank. Check the LED status:
     - Blinking green, then solid BLUE: connected to the network.
     - Blinking ORANGE: ready to be positioned (10 sec.).
2. **Step 2: Secure the TankMate Sensor**
   - While the status light is blinking ORANGE, place the sensor onto the tank, on top of the gasket.
   - Wait 20 seconds, then refresh the TankMate app (swipe down).
   - Check that an initial level reading was recorded (reading date / time in app).
   - Secure the sensor with 4 x stainless screws provided – do not overtighten.
3. **Additional Information:** Quick Start Guide
4. **Step 3: Account / App Setup**
   - Download the iOS or Android app from your app store.
   - Sign Up to create your TankMate account.
5. **Using Your TankMate Sensor**
   - The default sensor reading frequency is 2 times per day (every 12 hours). This can be customized in the app: Settings > Sensor Settings.
   - The sensor will send data online via your Wi-Fi network.
6. **Step 4: Note**
   - There is no direct connection between your mobile phone and the sensor.

- To get a reading at any time, use the blue magnet supplied to wake up the sensor. See digital guide (link above).
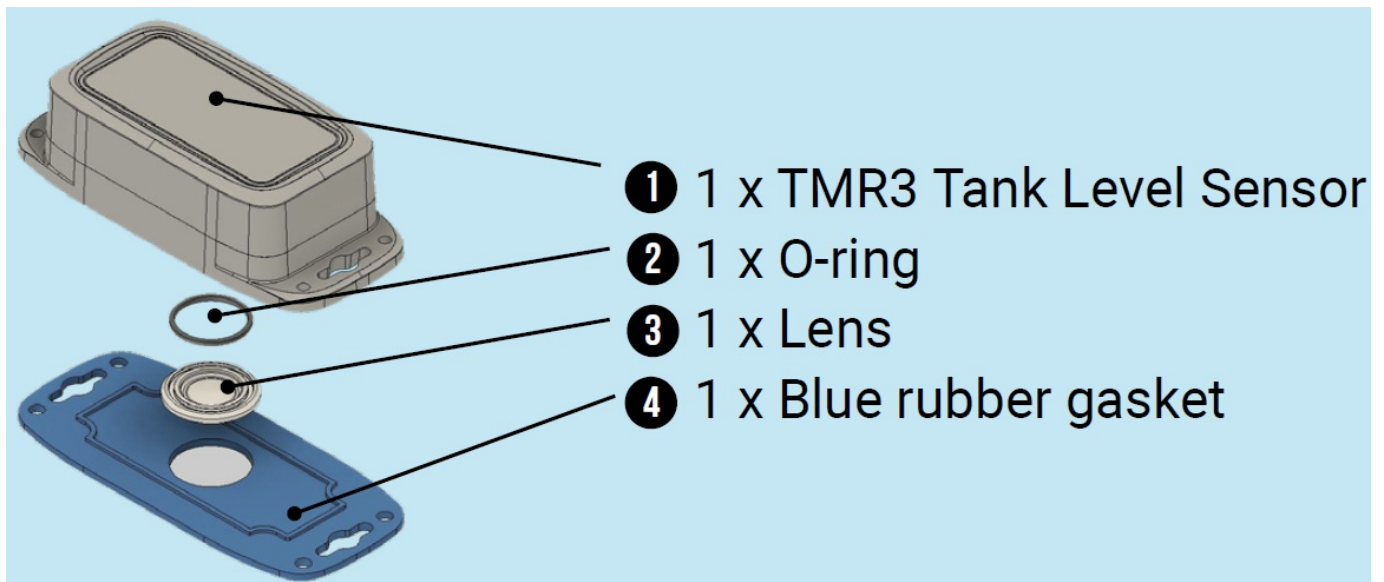
7. **Step 5: Enter Your Tank Dimensions**
   - Follow the prompts in the app to select the correct volume, tank quantity, and overflow height. These can be edited later.
   - Multiple connected tanks can be monitored with one sensor, however, the measured volume will only be accurate if the tanks are balanced (keep the same level).
   - The Sensor Height will need to be measured during installation (refer to section 6).
8. **Tools Required:** Drill (for thicker tank materials).
9. **Step 6: Positioning the TankMate Sensor**
   - The position of the sensor is critical to ensure accurate readings can be taken. The sensor must:
     - Be at least 100mm above the maximum fill height (overflow height).
     - Have a clear line-of-sight to the water surface. There should be no obstructions.

## What's in the box



❶ 1 x TMR3 Tank Level Sensor
❷ 1 x O-ring
❸ 1 x Lens
❹ 1 x Blue rubber gasket

1. 1 x TMR3 Tank Level Sensor
2. 1 x O-ring
3. 1 x Lens
4. 1 x Blue rubber gasket
5. 4 x 1" fixing screws
6. 4 x Masonry wall plugs
7. 1 x Magnet (to wake up sensor)

## Account / App Setup

- Download the iOS or Android app from your app store
- Sign Up to create your TankMate account

**Note**

- The sensor should only be added to one account.
- Additional app users should sign in using the same email login / password.

**Add a TankMate Sensor**

- Select the R3 product option from the app setup screen
- Take the sensor out of the packaging, and remove the blue rubber gasket from the base
- Scan the QR code located underneath your TankMate sensor
- Follow the prompts in the app to connect the sensor to your Wi-Fi network

**Note:** To troubleshoot issues with Wi-Fi connectivity, or for more detailed setup instructions, read the docs: **https://tankmate.gitbook.io/**
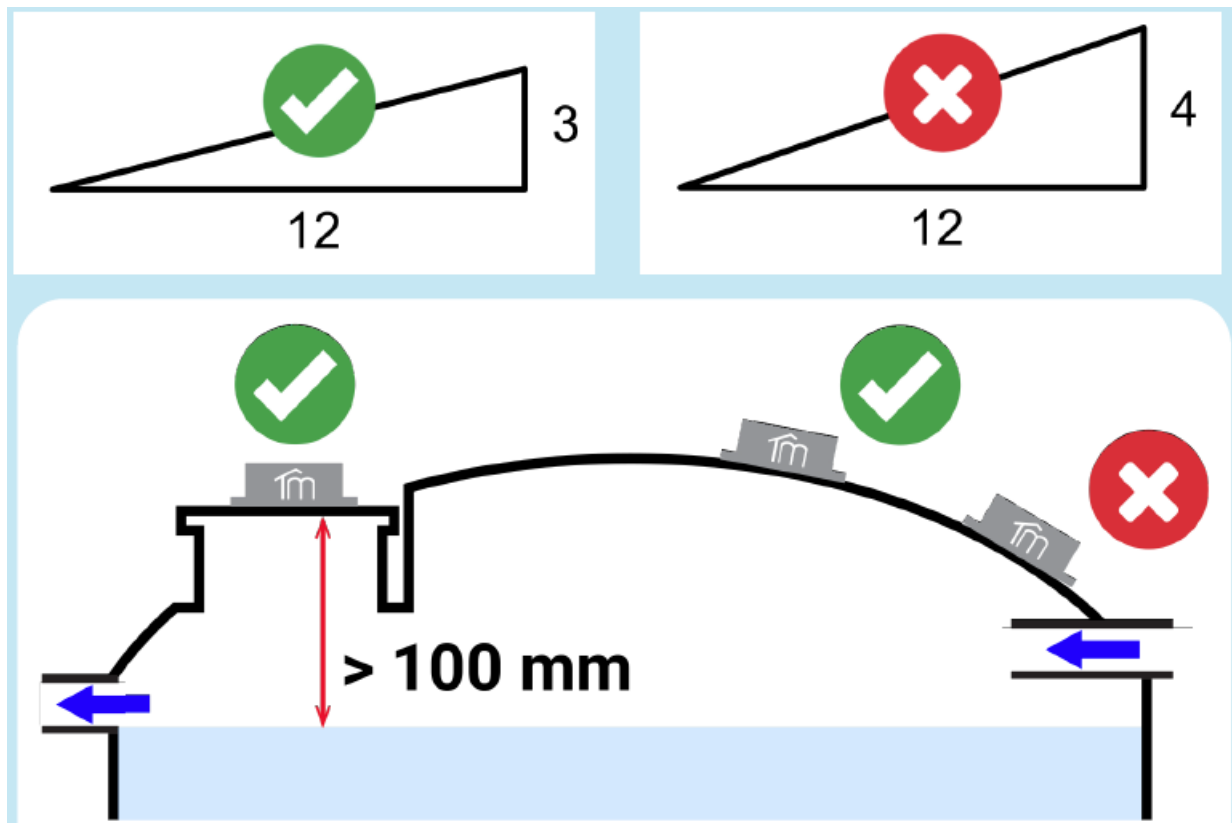
## Dimensions And Positioning the TankMate Sensor

**Enter Your Tank Dimensions**

- Follow the prompts in the app to select the correct volume, tank quantity and overflow height. These can be edited later.
- Multiple connected tanks can be monitored with one sensor, however the measured volume will only be accurate if the tanks are balanced (keep the same level)
- The Sensor Height will need to be measured during installation. See section 6.

**Positioning the TankMate Sensor**

The position of the sensor is critical to ensure accurate readings can be taken. The sensor must:

- Be at least 100mm above the maximum fill height (overflow height)
- Have a clear line-of-sight to the water surface. There should be no pipework or other obstructions in the way
- Be at least 300 mm away from the tank side wall
- Not be on a slope greater than 3/12 (15 degrees)
- Be within range of your Wi-Fi network

## Tools Required

- Ø30mm hole saw / spade drill bit (poly tanks);
  - OR 30mm diamond core drill (concrete tanks)
- Ø3mm drill bit (poly tanks); OR 6mm masonry drill bit (concrete)
- Power drill / 18V brushless battery drill
- #2 Phillips screwdriver

## Tank Preparation And Sensor Height

### Tank Preparation

- Drill a Ø30mm hole in the tank lid / roof
- For thicker tank materials (e.g. concrete), ensure that the hole is drilled vertically
- Place the blue rubber gasket onto the tank lid/roof – align the center hole with the 30mm hole you have drilled
- Mark the position of the 4 fixing holes with a permanent marker
- Remove the rubber gasket
- Drill the 4 fixing holes:
    - 3mm for poly tanks
    - 6mm for concrete

**Set the Sensor Height in the App**

- Use a tape measure to measure the distance from the tank mounting surface (roof / lid) to the floor of the tank
- In the mobile app, open: Settings > Tank Settings
- Set a Sensor Height to match the distance you have just measured (m)
- SAVE the Tank Settings in the app
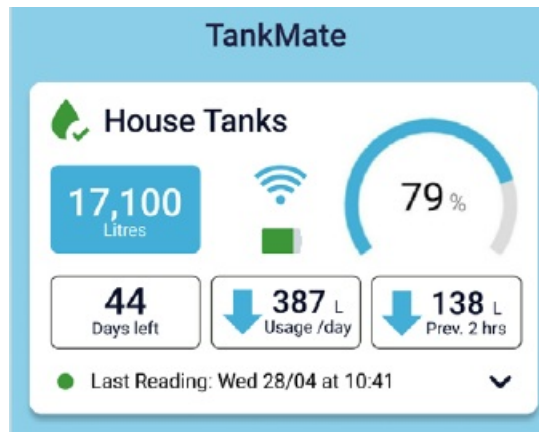
## Install the Gasket and Lens



- Insert the wall plugs (required for concrete tanks only)
- Put the blue rubber gasket back into place – check that it is aligned with the center hole and fixing holes
- Insert the white plastic lens, with the rubber O-ring facing up

**Important:** Press the READ button underneath the sensor before fixing it down onto the tank. Check the LED status:

- **Blinking green, then solid BLUE:** connected to the network
- **Blinking ORANGE:** ready to be positioned (10 sec.)

## Using Instructions

**Secure the TankMate Sensor**

- While the status light is blinking ORANGE, place the sensor onto the tank, on top of the gasket
- Wait 20 seconds, then refresh the TankMate app (swipe down)
- Check that an initial level reading was recorded (reading date / time in app)
- Secure the sensor with 4 x stainless screws provided – do not overtighten

You have now completed the TankMate sensor installation!

**Using Your TankMate Sensor**



- See the full instructions here: **https://tankmate.gitbook.io/**
- The default sensor reading frequency is 2 times per day (every 12 hours). This can be customised in the app: Settings > Sensor Settings
- The sensor will now send data online via your Wi-Fi network.
- There is no direct connection between your mobile phone and the sensor
- To get a reading at any time – use the blue magnet supplied to wake up the sensor. See digital guide (link above).

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**Documents / Resources**



**TankMate TMR3 Tank Level Sensor** [pdf] User Guide
TMR3 Tank Level Sensor, TMR3, Tank Level Sensor, Level Sensor, Sensor

# References

- 🏫 **TankMate User Guide - TankMate**