



## Eco-Water Monitor Installation guide

### Packaging contains:

- Tekelek Eco-Water Monitor + mains plug
- Tekelek Eco-Water Transmitter + 2 self tapping screws + weather seal
- Tekelek Eco-Water Product manual
- This installation guide

Do **NOT** install/ fit your Tekelek Eco-Water Transmitter to the tank until **after** step 3.



Your tank dimension chart	Tank Type	Height (H) cm/inch	Width (W) cm/inch	Brimful Capacity Ltrs/Gal	Nominal Capacity Ltrs/Gal (95% of Brimful)
 Type A - Rectangular/cylindrical vertical			N/A		
 Type B - (H >= W) Oval/cylindrical horizontal					
 Type C - (W > H) Lo profile					

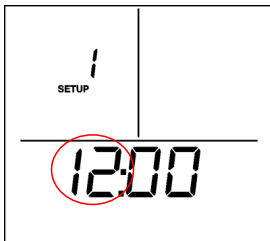
### STEP 1 - DETERMINE THE SHAPE OF YOUR WATER TANK

Select your tank type that is closest in shape to your tank from the pictures and complete the chart above. The capacity on the tank should be noted.

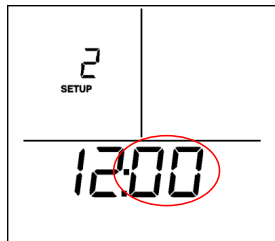
- When taking the tank dimensions, confirm it is prepared for step 4.
- Determine the dimensions of your tank either from manufacturer's data for the tank or by physically measuring to complete the chart above.
- You only need to note the dimensions indicated on the chart shown above.
- For bunded tanks the information required is for the internal tank only, where the Tekelek Eco-Water Transmitter will be located.
- To determine the tank height measure from the top of the tank, i.e. where the Tekelek Eco-Water Transmitter will be positioned, to the bottom of the tank (N.B. of the internal tank in a bunded tank)

### STEP 2 – SETTING UP YOUR TEKELEK Eco-Water MONITOR

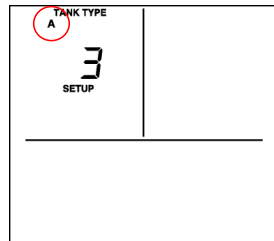
On first powering up your Tekelek Eco-Water Monitor, it automatically displays its setup mode. The Tekelek Eco-Water Monitor screen will show SETUP 1. One or more segments of the display may be flashing. Flashing segments are circled in RED in the diagrams. Please follow the steps below to store the settings to configure your Tekelek Eco-Water Monitor. If you make a mistake and store an incorrect value, simply press ENTER repeatedly until you return to the same SETUP number, then select the correct value and press ENTER to store.



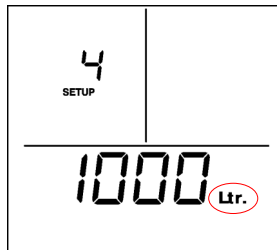
**SETUP 1 – Setting the time (hrs)**  
Adjust the hour displayed using  $\Delta/\nabla$ . Press **ENTER** to save.



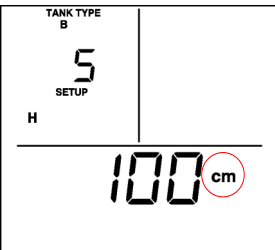
**SETUP 2 – Setting the time (mins)**  
Adjust minutes displayed using  $\Delta/\nabla$ . Press **ENTER** to save.



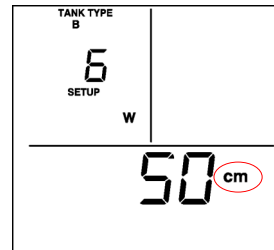
**SETUP 3 – Setting the tank type**  
Select Tank Type i.e. A, B, or C, using  $\Delta/\nabla$  to match the Type you noted from above. Press **ENTER** to save.



**SETUP 4 – Setting the tank capacity (Ltr/Gal)**  
Refer to the chart above for nominal capacity and adjust the amount in Litres/Gallons displayed using  $\Delta/\nabla$ . Press **ENTER** to save.

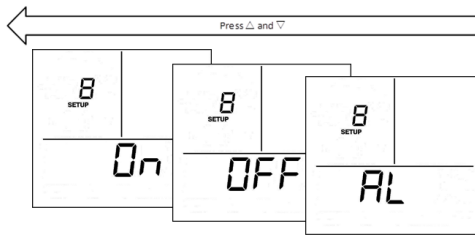


**SETUP 5 – Setting the tank height (cm/inch)**  
Refer to the chart above for tank height and adjust the amount in cm/inch displayed using  $\Delta/\nabla$ . Press **ENTER** to save. Note that if Tank Type 'A' was selected, SETUP 6 will be skipped.



**SETUP 6 (Type B & C tanks only) - Setting the tank width (cm/inch)**  
Refer to the tank chart above for the width and adjust the amount in cm/inches displayed using  $\Delta/\nabla$ . Press **ENTER** to save.

### STEP 2 – SETTING UP YOUR TEKELEK Eco-Water MONITOR —cont'd



#### SETUP 7 – Setting the Low Water Audible Alarm

**Alarm on:** The Tekelek Eco-Water Monitor will sound an audible beep when the water level falls to below 5% of usable water remaining.  
**Alarm off:** Disengages the alarm.

For further information please refer to Section 6 of the Product manual.  
Select **AL ON/OFF** using  $\Delta/\nabla$ . When the display shows your preferred setting press **ENTER** to save.

**SETUP should now be complete.** Press **SETUP** to exit and progress to STEP 3.  
On exiting SETUP mode the Tekelek Eco-Water Monitor temporarily displays 'CALC'.

CALC

**N.B.** If at any stage you exit SETUP mode for any reason, simply hold **SETUP** for 3 seconds to begin again.

### STEP 3 - MATCHING THE TEKELEK Eco-Water TRANSMITTER TO THE Eco-Water MONI-

The Tekelek Eco-Water Monitor must be in **LEARN** mode which can be entered in one of two ways:

- Pressing **SETUP** after completing STEP 2 above
- Disconnecting and reconnecting the power

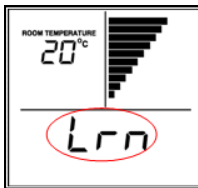


Image 1: 'Lrn' mode



Image 2: Alignment Pin



Image 3: Correct positioning



Image 4: Alignment

When in **LEARN** mode the display shows 'Lrn' in the main display area (see **Image 1**). **LEARN** mode will last for **2 minutes** during which time you must 'match/pair' the Tekelek Eco-Water Transmitter to the Tekelek Eco-Water Monitor.

**To match/pair the units:** Note the location of the alignment pin on the right hand side of the base of the Monitor (see **Image 2**). Using the screw hole of the Transmitter, slot it onto the pin as shown in **Image 3**.

The display of the Transmitter should be facing in the same direction as the Monitor's display as shown in **Image 4**.

When located properly, the bars in the bar graph display of both the Tekelek Eco-Water Monitor and the Tekelek Eco-Water Transmitter will flash and begin to increase in synch together rising from one bar to ten bars. A continuous audible beep and flashing LED on the monitor will also indicate the matching is in progress. Continue to hold the units in place until **all 10 bars are flashing**. The Tekelek Eco-Water Monitor will make a **loud beep** and the **Red LED** on the Tekelek Eco-Water Transmitter will flash. They are now matched and should be separated immediately.

Following the 'matching/pairing' the Tekelek Eco-Water Transmitter will send data continuously to the Tekelek Eco-Water Monitor for approximately 10 minutes. Each time the Monitor receives a reading, it will make a clicking noise and the LED on the Monitor will blink (this is 'fast' mode for the transmitter).

During this time, confirm that the matching procedure was successful by slowly raising and lowering the Tekelek Eco-Water Transmitter over a flat surface and observing that the display in the Tekelek Eco-Water Monitor changes. 'Fast' mode will stop after 10 minutes. **The Tekelek Eco-Water Transmitter is now ready to fit onto the tank and should be fitted whilst in 'Fast' mode.**

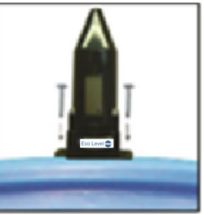
**You should now proceed immediately to STEP 4 and fit the Tekelek Eco-Water Transmitter to your tank. If it is not fitted within 10 minutes, the Tekelek Eco-Water Monitor may display an error or an incorrect reading. It may then take up to 2 hours before the correct tank level information is displayed on the Tekelek Eco-Water Monitor screen.**

### STEP 4 - INSTALLING THE TEKELEK ECO-WATER TRANSMITTER ON THE TANK

The procedure is the same for fitting to both old and new tanks. For bunded tanks ensure that the Tekelek Eco-Water Transmitter is located on top of the inner tank.

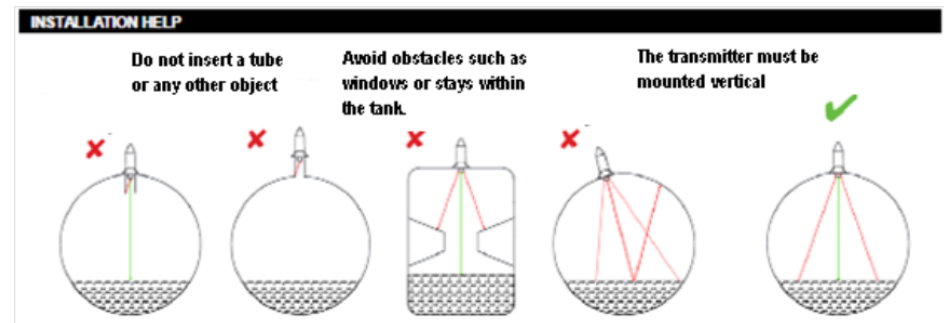
#### For Tanks with pre-drilled 30/32mm (1.22 inch) hole

- Remove cap from hole and insert transmitter, ensuring the weather seal is securely in place.
- Ensure the transmitter is vertical on top of the tank.
- Tighten on to the tank using the 2 stainless steel 19mm (0.75 inch) long self-



#### For Tanks without pre-drilled holes

- If the tank is not pre-drilled, then using a 30/32mm (1.22 inch) hole saw, drill the hole in the top of the tank in a suitable area to allow ease of fitting the transmitter such that the transmitter can see the tank contents. Position it so that there are no internal obstructions that may interfere with the ultrasonic signal (i.e. Ribs, Stays, Side of Tank, internal equipment).
- Use the **Installation Help** diagram below to ensure suitable fitting.
- Ensure the transmitter is vertical on top of the tank.
- Tighten on to the tank using the 2 stainless steel 19mm (0.75 inch) long self-tapping screws supplied. **Do not use longer screws. Do not over-tighten.**



Check the Tekelek Eco-Water Monitor display 2 hours after mounting the transmitter & verify that your Tekelek Eco-Water Monitor display shows the tank level in the bar-graph area & the volume information in the main display area. If not, please consult the 'Troubleshooting' section of the Tekelek Eco-Water Product Manual.

N.B. the bar-graph displays on the Tekelek Eco-Water Transmitter and the Tekelek Eco-Water Monitor may not be the same. The transmitter display indicates the top 1m of the tank while the Tekelek Eco-Water Monitor bar-graph displays the liquid level relative to the overall tank

### STEP 5 - (OPTIONAL) PERFORM ONLY IF THERE WAS A DELAY IN INSTALLING THE TEKELEK Eco-Water TRANSMITTER ON THE TANK

The segments at the bottom of the display will be flashing. Press the **ENTER** key for 5 seconds. The screen will temporarily show 'CALC' and then returns to showing SETUP 1 - Setting the Time (hrs). Press **SETUP** to leave SETUP mode.

Setup of your **Tekelek Eco-Water Monitor** is now complete and it will now begin to monitor and track your water consumption on a day to day and week to week basis. On the 'Days to Empty' CURRENT information screen, '---' will be displayed for the first week in use.



You only need to complete this step if there was a gap of more than an hour between completing STEP 3 and STEP 4. STEP 5 is otherwise completed automatically as part of STEP 3. When your Tekelek Eco-Water Transmitter is installed and has been confirmed as working, **reset the usage calculations** by pressing **SETUP** for 3 seconds to enter SETUP mode and then press **ENTER** repeatedly until SETUP 9 is shown.

Should you have any queries please contact,  
**sales@tekelek.ie**