

TankAlert monitors and displays liquid levels and gives an alert when the level drops below 5% of above) + Receiver and (2) Transmitter with Visual display (allows user to view liquid level the installation instructions for the correct type.



A Receiver

- **B** Transmitter (Visual or no display)
- **C** Mounting Adapter
- **D** Screws
- **E Weather Seal**

Fuel & Tank Types

TankAlert can be used on all standard steel tanks. To work optimally, tanks must be placed on a level surface, be a maximum height of 10 feet and be with a 450 ft./150-meter line of sight of the receiver.



- a) To avoid error, the TankAlert transmitter must sit in a vertical position on top of the tank and have a direct line of sight to the liquid level in the tank, through to the bottom without any interference from e.g. window configurations or tank braces.
- b) Install the supplied metal adapter into the pre-drilled 2" NPT opening on the top of the tank. Apply pipe sealant on the adapter thread and tighten appropriately. For basement tanks, temporarily place a rag/cover over the adapter to minimize fuel odors until transmitter is synchronized. Tanks with 11/2" and 11/4" NPT openings or European style double-wall tanks require adapters. Do not use an extension pipe when mounting the adapter; this can cause inaccurate measurement and malfunction.

Installation Help: Avoid tank braces and tank windows.



2 •)] **Define Tank Height**

Accurately measure the height of your tank from the liquid outlet at the bottom of your tank to the bottom of the TankAlert ultrasonic monitor. TankAlert measures the level of usable liquid in the tank in 10 graduations of the tank height. Correct tank height measurement is critical for accurate liquid level display.



3 •)) Setting the Switches on the Receiver

Activate the switch (located at back of receiver) numbers that correlate to your tank size (see chart at Step 9 overleaf) by using a screwdriver or ballpoint pen to move the switches upwards to the ON position. Activating switch 1 (the audible ring feature), enables a bleep to indicate a low-level reading (< 5% liquid warning)



4 •)) **Matching Receiver** and Transmitter for both visual and no-display types.

You can now link/match the receiver to the transmitter, through getting a unique code for your tank (this need only be done once, at installation).

- Plug receiver into a convenient electrical socket and switch on.
- The display screen on the front of the receiver will show a flashing top bar as shown in diagram (opposite) for up to 2 minutes indicating that the transmitter can be matched to the receiver during this time.
 - FULL 3 EMPTY
- Hold the transmitter (left side) against the receiver's right side so that the black dots on each are aligned (for 20 seconds). This allows the unique code to be transferred. During the matching process, you will hear an audible beep from the receiver to indicate matching is in progress. The number of bars will increase on the receiver display until all 10 bars are flashing and an audible beep occurs: this indicates that the unique code has been transferred. The setup is now complete for the no-display type only; the transmitter is now ready to read and transmit liquid levels and must be placed on the tank immediately (Step 6).
- If matching visual (LCD display) transmitter, you MUST continue to hold the two units together and proceed to the next stage of the matching process (Step 5 across).



Additional Matching Step To Calibrate 5 •)) **Visual Transmitter to Tank Height** (TankAlert Visual ONLY)

When using TankAlert Visual, the visual transmitter must also be calibrated to the tank dimensions, so that liquid levels can be read at the tank as well as in your home.

To do this, you MUST continue to hold the transmitter and receiver together (via the black dots) after the ten bars are showing on the receiver (post Step 4).

Continue to hold the black dots together until the visual transmitter screen goes blank. A nozzle icon will flash in 10 seconds, indicating that the transmitter is in 'tank height setting' mode. Continue to hold as the black bars increase until the number of black bars, according to the table below, increases to match the height of the tank measured at step 2.

When the number of bars indicates the correct tank height, immediately separate the transmitter and the receiver.

Wait for a double flash of the red light on the visual transmitter to indicate that the tank height setting has been stored in the transmitter. The transmitter can now be placed on the tank.

There may be one bar more or less displayed on the visual transmitter display compared to the receiver display when operational. This is due to the smaller number of tank height settings that may be selected with the transmitter screen bars compared with the receiver switches. The bars in both displays will accurately reflect the level in the tank.

Note: if the number of bars displayed overruns the height setting table (below), continue to hold the black dots together until the screen returns to blank and the nozzle flashes; re-start the process again until the correct number of bars appear.

Tank Height (Inches/mm)	31/800	39/1000	43/1100	47/1200	51/1300	55/1400	67/1700	79/2000	91/2300	102/2600	102/2600 to 116/3000
Graphic on Visual Screen		· •	·) =	.)=							
BARS	D	1	2	З	4	5	6	7	8	9	10

Position Tank on a Level Surface

Fitting Transmitter

For tanks with pre-drilled 32mm hole:

- Remove cap from pre-drilled hole and insert transmitter, ensuring the weather seal is securely in place and that transmitter sits vertically.
- Tighten on to the tank with 2 stainless steel self-tapping screws provided. Do not use longer screws or over tighten.

For tanks with a 2", 11/2" or 11/4" BSP/NPT gauge aperture (60mm/48mm/42mm)

- Unscrew any caps from hole; fit adapter provided by screwing into gauge socket.
- Fit TankAlert to adapter on the tank; ensure weather seal is in place. Tighten on the tank using the screws
- supplied. Do not over tighten. **NOTE: Mounting Adapter supplied** must only be used.



The 10-level bar graph represents the level of liquid in your tank. The number of bars illuminated denotes the level of liquid in the tank. You will get 2 re-fill warnings as shown in the diagrams below.



(b) Early Warning (2-bars):



Full

FULL

FULL

EMPTY

(c) Almost Empty (1-bar).





info@tekelek.ie T: +353 (0) 61 471511

Troubleshooting

a. Power Failure or Receiver Moved

In the event of a power failure or the receiver being switched off, the receiver display screen will show a top bar flashing for 2 minutes when power is restored. The screen will then turn blank until the unique signal is located (there is no need to repeat the 'black dot' matching instruction). This could take up to 1 hour.



c. No Ultrasonic Echo Flashing triangle, middle bar only. Check that the transmitter is fitted \mathbb{A} vertically on tank, with no interference from a tank wall, corrugation or window.

> If matching is not completed in the 2-minute interval on plugging in the receiver for the first time - then turn off the receiver at the power point and then turn it on again to initiate a new matching interval.

d. Low Battery Signal: Constantly Flashing Warning Light.

> 1. Remove transmitter from the tank and take it into a clean, dry environment.



3. Remove the old battery noting the orientation (+ mark facing upwards) and replace with a new battery (3V-CR2450)

4. Re-assemble, ensuring the O-Ring is undamaged and secured in position.

5. Place the transmitter on the tank.

No need to re-match.

Please consult our website www.tekelekgroup.com

9 •)) **Multi Switch Setting Chart**

Measure the vertical height of the tank from the transmitter position on top of the tank to the bottom of the tank. Read to the nearest measurement on the chart.

Tank Height (ins/mm)	'On' Switches	(ins/mm)	'On' Switches	(ins/mm)	'On' Switches	(ins/mm)	'On' Switches
20/500	1	45/1150	1,3	71/1800	1,2,8	97/2450	1,2,3,8
22/550	1,7	47/1200	1,3,7,8	73/1850	1,2,7,8	99/2500	1,2,3,6
24/600	1,6,8	49/1250	1,3,6,8	75/1900	1,2,6,7	100/2550	1,2,3,6,7
26/650	1,6,7,8	51/1300	1,3,5	77/1950	1,2,5	102/2600	1,2,3,5,8
28/700	1,5,7	53/1350	1,3,5,7	79/2000	1,2,5,7,8	104/2650	1,2,3,5,7,8
30/750	1,5,6	55/1400	1,3,5,6,8	81/2050	1,2,5,6,8	106/2700	1,2,3,5,6,7
31/800	1,5,6,7,8	57/1450	1,3,5,6,7,8	83/2100	1,2,4	108/2750	1,2,3,4
33/850	1,4,8	59/1500	1,3,4,7	85/2150	1,2,4,7	110/2800	1,2,3,4,7,8
35/900	1,4,6	61/1550	1,3,4,6	87/2200	1,2,4,6,8	112/2850	1,2,3,4,6,8
37/950	1,4,6,7	63/1600	1,3,4,6,7,8	89/2250	1,2,4,6,7,8	114/2900	1,2,3,4,5
39/1000	1,4,5,8	65/1650	1,3,4,5,8	91/2300	1,2,4,5,7	116/3000	1,2,3,4,5,6,8
41/1050	1,4,5,7,8	67/1700	1,3,4,5,6	93/2350	1,2,4,5,6	-	-
43/1100	1,4,5,6,7	69/1750	1,3,4,5,6,7	95/2400	1,2,4,5,6,7,8	-	-

Specifications

Tank depth measurement:



FULL

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EMPTY

ne battery can be	
essed by removing 4	
tapping screws from	
pase of the unit.	~

Display:	10-bar graph level display: 10% tank height per bar. Early warning indication (flashing tank fill) at a predetermined height above tank bottom; tank empty warning flashing red LED at a predetermined height from tank bottom. Complies with FCC and UL 60335-1.					
Max communication distance:	450ft. /150m in normal "line of sight" conditions.					
Power supply:	Receiver: 110V +/- 10%, 60Hz.					
Battery/battery life:	3-volt CR2450 lithium cell / up to 10 years.					
Wireless com:	915MHz FM transmission.					
Dimensions:	Receiver: 50 x 55 x 35mm (not including aerial) Transmitter: 143 x 70 x 40mm					
Max and min operating temp. (transmitter):	Operating temperature range +14° F to +140°F Operating humidity: 0-100% Sealed airtight unit made from PP3317 UV stabilized.					
Hole size for tank fitting:	2ins. Use adapters for tanks with pre-drilled 2", 1 $\frac{1}{2}$ " or 1 $\frac{1}{4}$ " BSP/NPT gauge aperture.					

Depth: 4ins/0.1m - 10 ft. /3m

(Use on tanks vented to the atmosphere)



It is the user's responsibility to avoid exposing the product to aggressive substances e.g. liquids or gases that may attack metals, or solvents that may affect polymeric materials.

- The receiver is for indoor use only.
- The receiver is a sealed unit; do not attempt to open it.
- Periodically check that the unit is intact and securely fastened to the tank. •
- Do not attempt to repair the product.
- Clean only with a damp cloth. •
- Do not replace batteries in a potentially explosive atmosphere
- Do not discard batteries in a pressurised container. (see symbol)

