

# Installation Instructions for LiquiLevel Tank Level Indicator

Fitting the LiquiLevel is simple and should not take more than 1 hour. Fits all storage tanks; Plastic, steel, fiberglass, concrete, any diameter tank and any height tank up to 16 feet. Longer cord available for taller tanks. For installation in an open top tank, simply fabricate an "L"-shaped bracket to hold the LiquiLevel in the correct position.



**1**

Positioning of the LiquiLevel is important.

1. Where it can be seen.
2. Near (as possible) to an access hatch.
3. If tank has calibration markings, then it would make sense to install the LiquiLevel directly in-line with the tank markings.

Please note that the LiquiLevel can be fitted to almost any shaped tank with roof covers up to 30 degrees.

**2**

Lay the installation template flat on top of the tank. Tape down the corners, if necessary, to secure the template. Line up the template until the edge of the tank marking and the edge of the tank line up. Drill (2) 25/64" or 10mm holes for the black plastic cord collars, starting with increasingly larger pilot holes. A 3/8" hole (slightly enlarged) will also work.

Mark the (4) smaller mounting holes with a felt pen as a guide for the self-tapping screws, if used on plastic or corrugated steel tanks or for pilot holes on other materials.

**3**

You should end up with 2 large holes (25/64" or 10mm) and 4 small marks in the top of your tank:

- (2) 25/64" (10mm) (For collars and cord)
- (4) 1/8" (For mounting screws)

**4**

Insert the 2 black plastic cord protection collars into the holes. Please note that these collars should fit tightly into the tank, so they may need to be tapped in gently using a hammer or a mallet.

**5**

Fill a bucket with clean cold water. For the system to function correctly, the float ball must be filled up with clean water. Submerge the float ball in the bucket completely, so that water starts to enter through the M6 threaded hole at the top of the ball. Using the straw provided, insert the straw through this hole (short end) until you reach the bend point of the straw. Start sucking on the straw until water comes out. At this point the float ball will have the correct volume of water in it. **THIS IS IMPORTANT** as the operation of the LiquiLevel system depends entirely on the float ball. If you have some weighing scales, the float ball should now weigh 21+ ounces (with the correct amount of water in it).

**6**

With the float ball now filled with water, insert the Black M6 set screw through the threaded hole on the float ball base. Use thread sealant or PTFE Tape. (DO NOT OVER TIGHTEN)

**7**

With the bracket on top of the tank, untie the knot on the float ball and insert the cord down through the collar closest to the center of the tank. Pull the cord through to the access point to enable you to tie the cord back onto the float ball. Tie a knot and fasten. Keep the float ball outside the tank

Untie the counter weight knot(s) and insert the two cords through the tank collar closest to the tank wall. Pull the cord through to the access point to enable you to put the two cords back through the counterweight. Tie a knot and fasten. Lower the counter-weight until it reaches the bottom of the tank. When the counterweight sits on the bottom of the tank, the float ball should be at the top of the tank. Adjust the cord length to suit the height of your tank.

**8**

If water is present during installation, simply add the water depth to the float ball cord length.

Slowly lower the float ball. If the tank is empty, the float ball will now swap places with the counterweight. If the tank is filled with water the float ball will float on top of the water. Even though the float ball floats, it is marginally heavier than the counterweight, so the counterweight will always correspond to the float ball.

**9**

If the tank is filled with water, use a tape measure or a wooden stick to measure the height of the water inside the tank. The waterline now needs to be marked on the outside of the tank, so the Level indicator can be calibrated correctly.

**10**

With the waterline marked on the exterior of the tank, the level indicator can now be aligned so that the reflective strip matches the waterline. Adjust the knot accordingly. Cut of excess cord and re-insert the indicator plug.

# Installation Template for LiquiLevel Tank Level Indicator



\* NOTE: The 1/8" pilot holes are unnecessary for plastic or corrugated steel tanks. Drilling a slightly oversized 3/8" hole (+ 1/64") for cord protection collars, will also work.

