

### **SL Series Level Monitor Calibration/Installation**

Date Originated: 08/16/04

Revision: D

Revision Date: 04/10/06

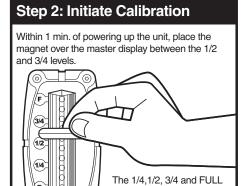
Standards No.

Subject: For Installing and Calibrating SL 10-LED Level Monitors

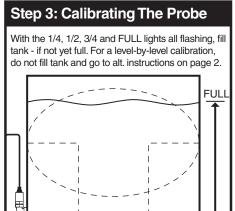
#### Note:

This calibration procedure must be performed to ensure that the indicated fluid levels on the display accurately match the actual levels in the tank. The tank can be full or empty to begin calibration, but must be filled before beginning Step 4. To ensure proper calibration, do not have water in the fill tower.

# Step 1: Install Tank Sender Unit To ensure proper drainage, it is highly recommended that the sender unit is mounted vertically on the side of the tank by using a 90 degree 1/4" NPT fitting. Connect sender unit to the display and the display to a 12 or 24 volt power source. Go to Step 2.



lights will flash in succession and then they will flash together - at the same time.



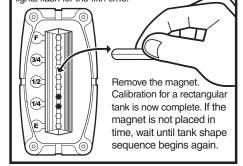
#### **Step 4: Tank Selection Mode**

Place the magnet over the display between 1/2 and 3/4 levels. The level lights will flash in sequence upward beginning the tank selection mode.



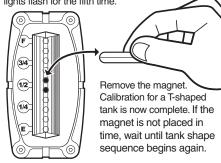
#### Step 5: Rectangular Tank

When the 1/4 level lights begin to flash, place the magnet back onto the master display before the lights flash for the fifth time.



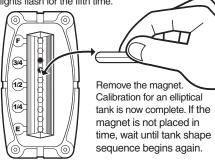
#### Step 6: T-Shaped Tank

When the 1/2 level lights begin to flash, place the magnet back onto the master display before the lights flash for the fifth time.



#### Step 7: Elliptical Tank

When the 3/4 level lights begin to flash, place the magnet back onto the master display before the lights flash for the fifth time.



#### **Notes**

If the magnet is not placed in front of the display to select a tank shape, the tank selection sequence will continue and the FULL light will flash 5 times. After the FULL light flashes 5 times the tank shape selection sequence will begin again. (Step 5) The tank shape selection sequence will repeat 3 times. If no tank shape selection is made in this time, the display will default to a rectangular tank.

If the display was calibrated incorrectly, remove power from the display and repeat the process. Recalibration can not occur without cycling power.





## SL Series Level Monitor Calibration (Alternative) Page 2 of 3

Date Originated: 08/16/04

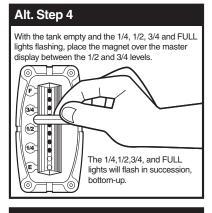
Revision: D

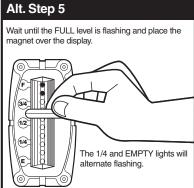
Revision Date: 04/10/06

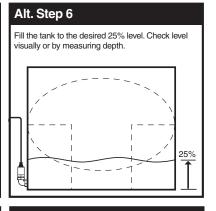
Standards No.

Subject: For Manually Calibrating SL 10-LED Level Monitor to Unique Tank Styles and Capacities

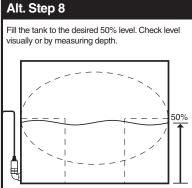
If none of the 3 calibration modes described on the previous page is acceptable, use this special calibration mode to set each of the water or foam levels independently. Perform Steps 1, 2, and 3 on previous page before astarting Alt. Step 4.

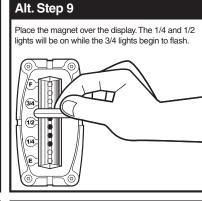


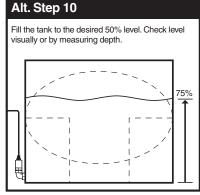




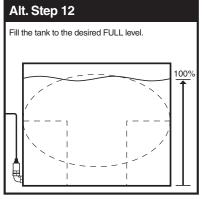


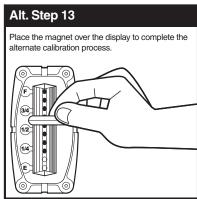


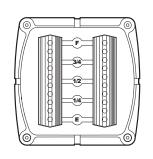












#### Dual level monitors must be calibrated one side (tank) at a time for both standard calibration (front of page) and alternate calibration (above).

Both calibration methods will work for all styles of SL level monitor master displays (10 and 14 LED water and foam, mini masters, and dual displays)

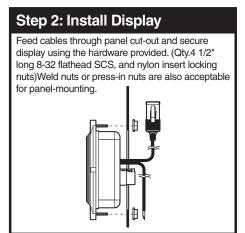


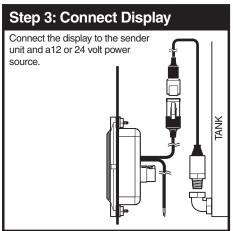
# SL Series Level Monitor Display Installation Page 3 of 3

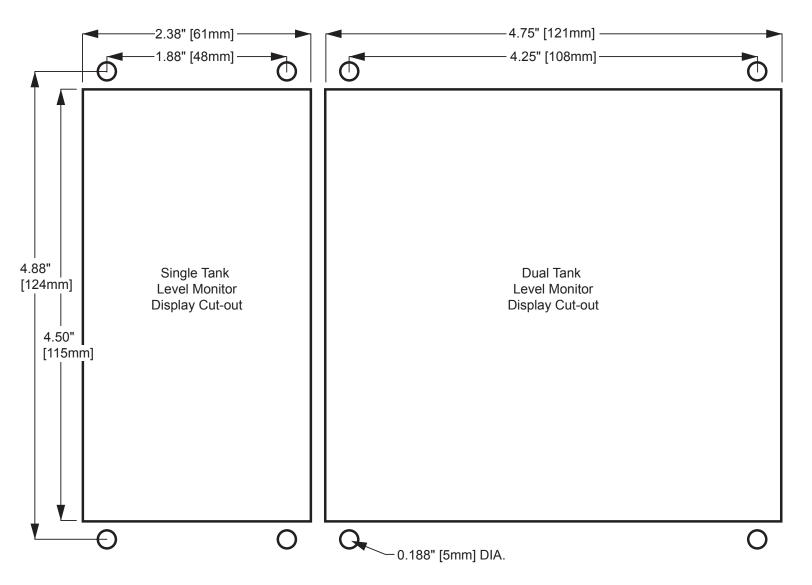
Standards No. Date Originated: 10/5/04 Revision: D **Revision Date:** 04/10/06

Subject: For Installing Single and Dual SL 10-LED Tank Level Monitor Displays

# Step 1: Layout Panel Cut-Outs Using the dimensions below (can also be used as templates), layout the location(s) for the display(s). Allow enough clearance between displays and other components. Note overall display dimensions.









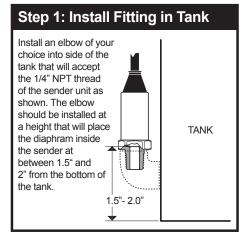
## SL Series Tank Sender Installation Instructions

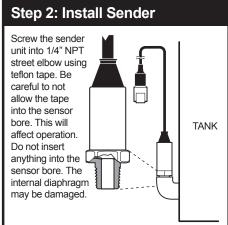
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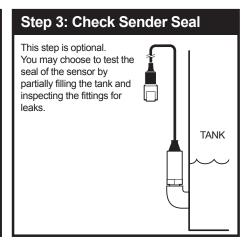
Date Originated: 12/05/06 | Revision: B | Revision Date: 12/16/06 | Standards No.

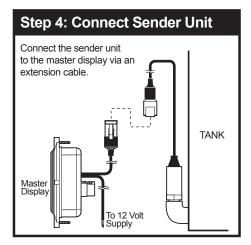
Subject: For Installing SL Series Tank Level Sender Unit

The SL Level Monitor is a pressure transducer system that converts pressure (psi) into voltage. The 5.0 VDC sensor outputs 0.25-0.31 VDC at no pressure up to a max of 4.5 VDC at 69" of water.









See SL Calibration Instructions to calibrate sender unit.