



Installation guide of PRIMA Model

Tools Required:

- 1) Electric Hand Drill machine
- 2) Masonry Drill Bit 6 mm.
- 3) Light weight hammer
- 4) Screw driver
- 5) Wire cutter/ stripper
- 6) SS Drill bit 4.2mm dia for drill in iron.
- 7) Tap drill 5mm nominal size.

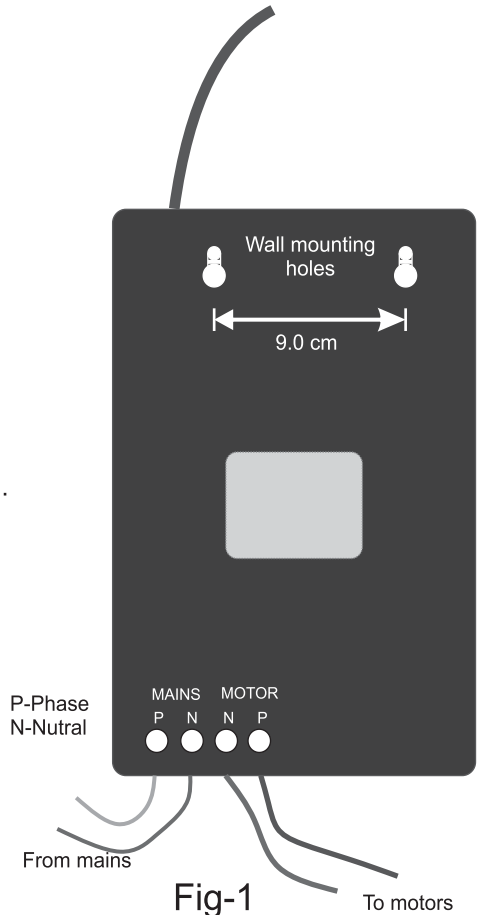


Fig-1

Controller (Rx) Unit

(Backside view)
(Connection details)

Caution: The installation should be executed by a competent electrician.

Steps for installation of Prima Model

1) Finding Location:

Before we drill hole in wall for fixing Controller (Rx), we should check the spot where the Rx will get maximum signal strength. Hence fix the transmitters(Tx) at suitable location at overhead and underground tank as shown in Fig-3 & 5. Place the cover of underground tank after bringing out the antenna of Sump Tx.

Make power supply connection to the Rx unit from nearby power outlet point and now place the Rx on wall at desired point and hold it there by hand. Within 5 minute it should get the signal of overhead and underground tank Tx. If its unable to get the signal of both transmitter, change the location till it gets signal of both transmitters. If you found a location where its getting signal of both transmitters, check the signal strength as below:

2) Checking Signal Strength:

i) The overhead tank Tx are assigned ID from 0 to 5 and Sump Tx are assigned ID-8.

ii) Now press the button no-1 five times. after a short beep it will show Tx id and then its strength between 0 to 6 LED. After a beep it will show the ID and signal strength of next Tx. It is recommended that the strength of Tx should be at least 1 LED. Try to get maximum signal strength by shifting the Rx by small distances. Repeat this till you get proper signal strength of all Tx. For Sump Tx, check the signal strength after closing the cover of underground tank and keeping the antenna outside the tank.)

3) **Fixing Controller:** After getting proper signal strength, mark the location of Rx unit. Now drill 2 holes 9.0cm apart in the wall by drill machine at approximate location. Now fix the wall mounting screw in wall with plastic sleeve.

4) **Making Connection:** Make the power supply connection and motor connection to the controller unit as per Fig-1 and fix the Rx unit on wall mounting screw.

5) **Placement of Level Sensor:** Now place the sensor of Over Head tank Tx as shown in Fig-3 & 5 and fix the sensor in position by tying sensor wire to pipe with tie belt.

6) **Fixing of Flow Sensor (Optional):** Now drill 4.2mm dia hole in the inlet pipe of the tank on the topmost portion as shown in the Fig-4. Make thread with 5mm tap drill. Now tighten the flow sensor in this hole. Make connection of flow sensor wire with Tx as per color of wire. Protect the joint with insulation tape. If the tip of this flow sensor submerged in water it will send the signal of flow in pipe line.

Steps showing fixing of overhead tank transmitter (Tx)

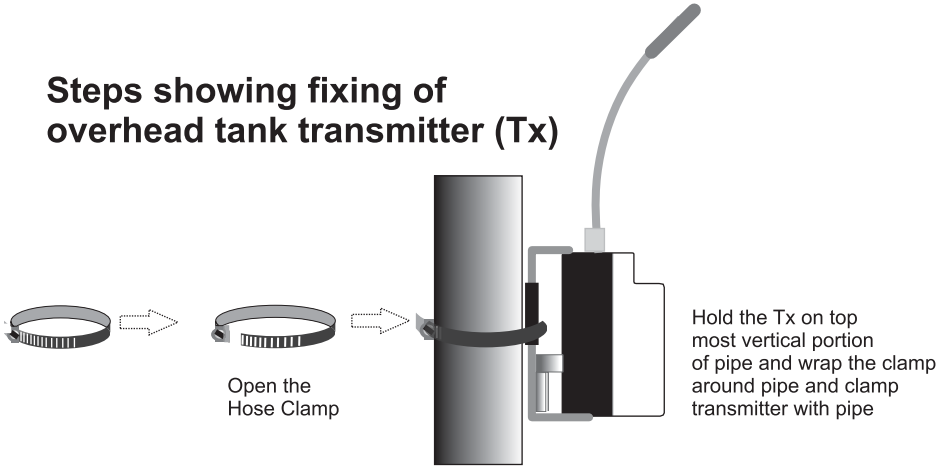


Fig-2

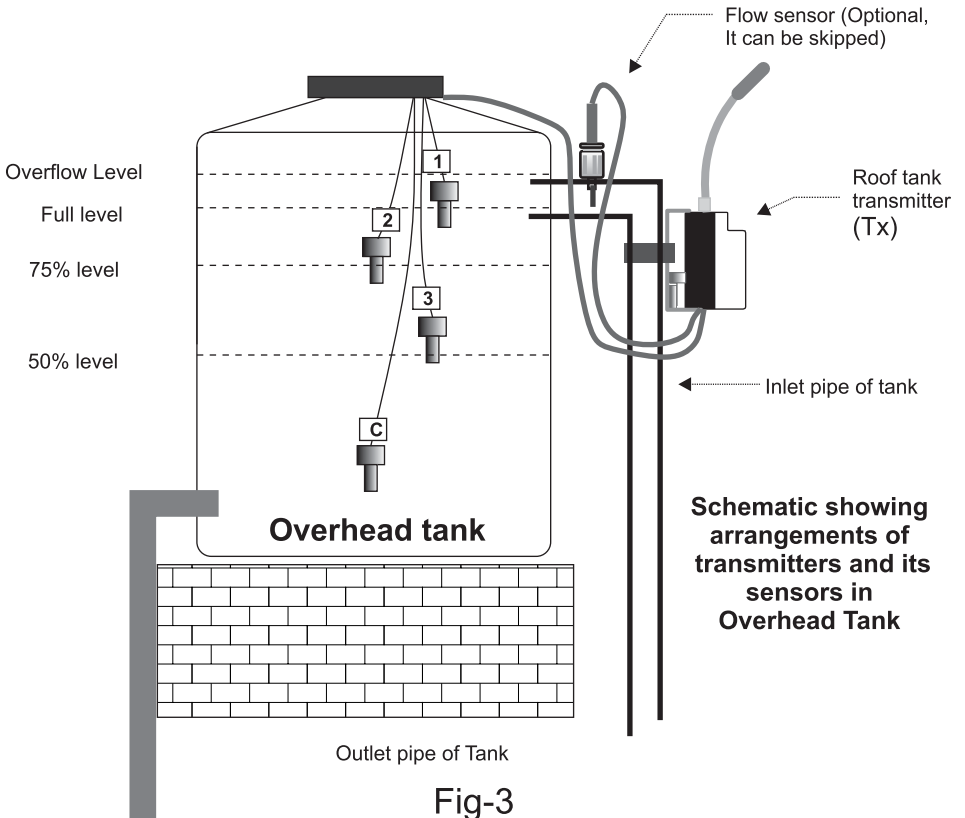


Fig-3

Fig-4

Installation of Flow Sensor (Optional)

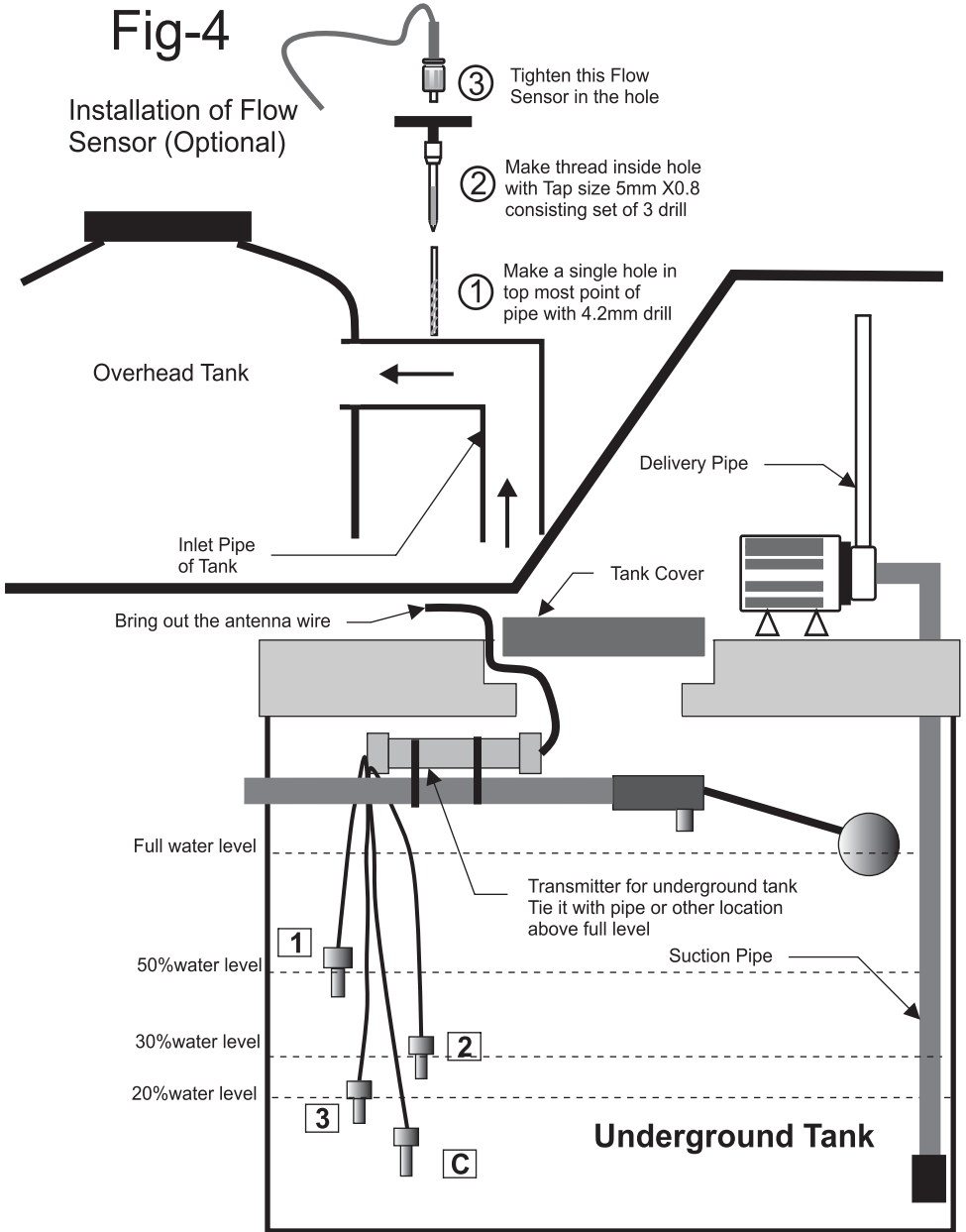


Fig-5

Schematic showing arrangements of transmitters and its sensors in Under Ground Tank