



Installation guide of SENSE 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.

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



Controller (Rx) Unit

(Backside view)
(Connection details)

Steps for installation of Sense 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 Tank and near motor inlet pipe as shown in diagram. Do not fix/ install sensors at this moment.

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 Tank Tx and Line Sensor 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 LED indication will first tell the Tx id then its strength then its data. The overhead tank Tx are assigned from 1 to 5 and line 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.(In case of underground tank 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 90mm 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 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 image and fix in position by tie belt.

6) **Fixing of Flow Sensor:** Now drill 4.2mm dia hole in the inlet pipe of the tank on the topmost portion as shown in the diagram. 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.

7) **Fixing of Line Sensor:** Now drill 4.2mm dia hole in the inlet pipe of the motor as shown in the diagram. Make thread with 5mm tap drill. Now tighten the Connector M-5X6 in this hole. Push into this connector the open end of the tube of flow sensor. Now tie the line sensor at near by location with tiebelt Make connection of line sensor wire with Tx.

Steps showing fixing of overhead tank transmitter (Tx)

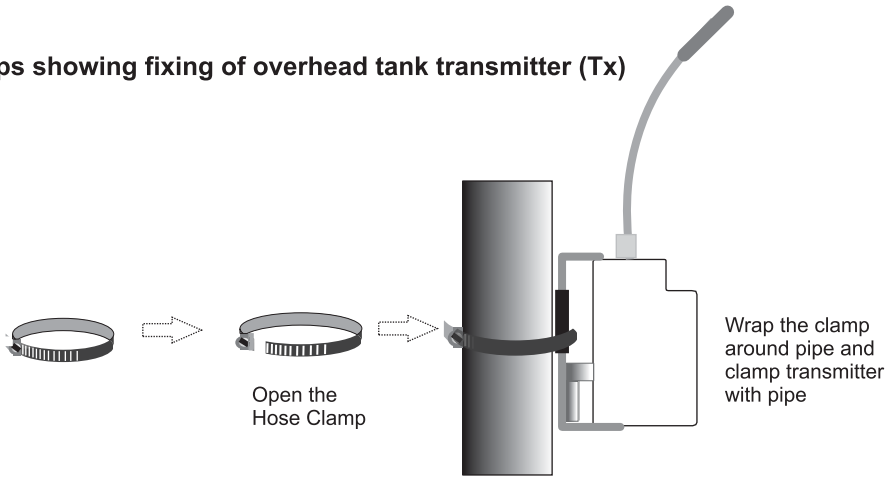


Fig-2

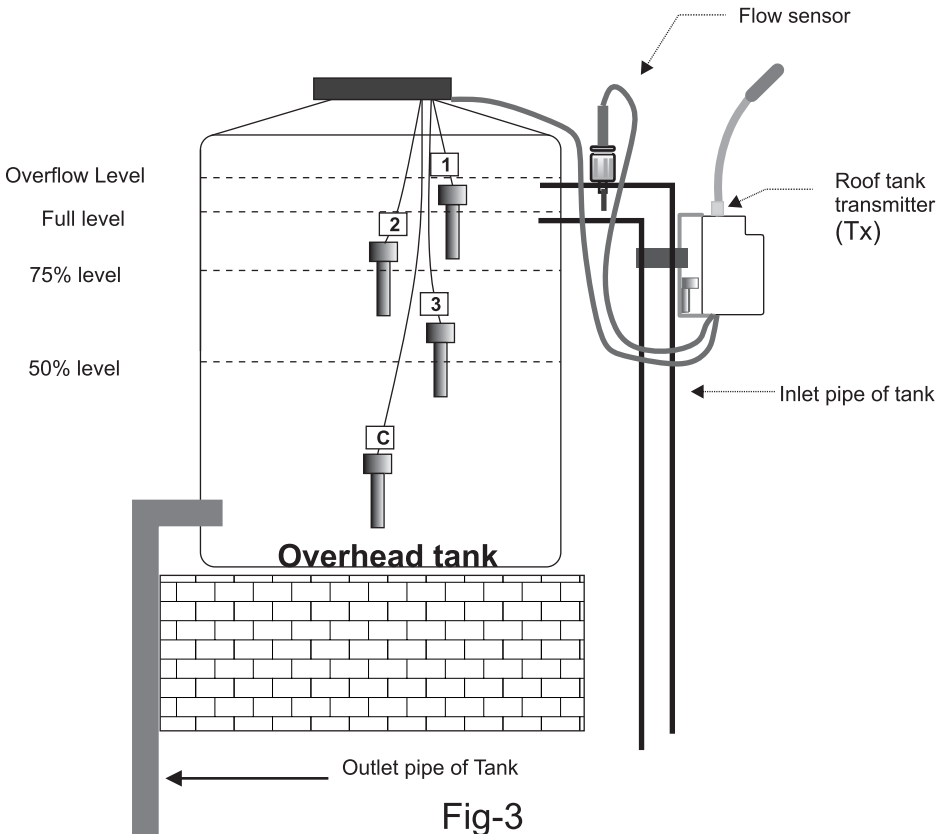


Fig-3

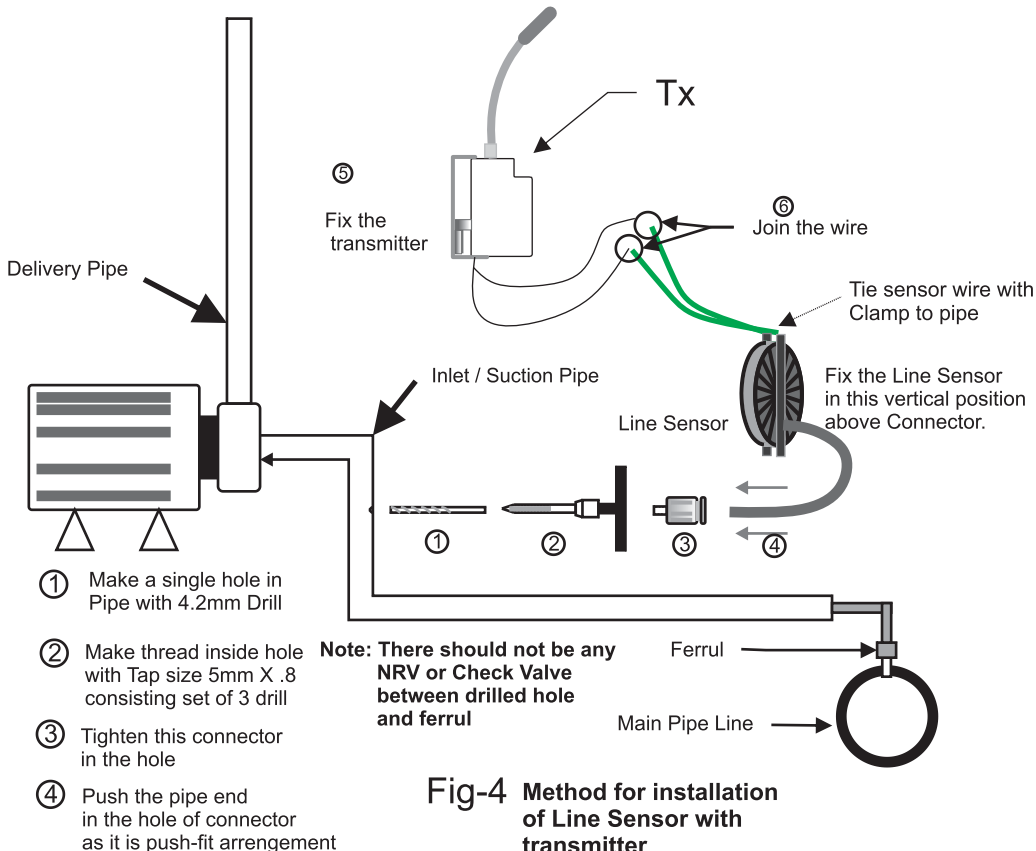
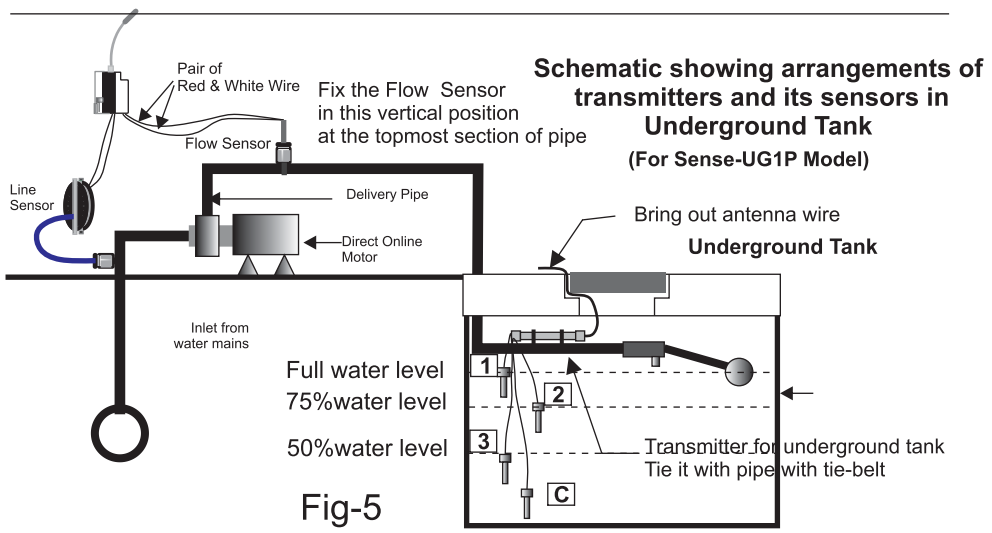


Fig-4 Method for installation of Line Sensor with transmitter



Schematic showing arrangements of transmitters and its sensors in Underground Tank (For Sense-UG1P Model)