

SUBMERSIBLE LEVEL TRANSDUCERS TYPICAL MOUNTING AND WIRING



GENERAL

Your controller has been provided with a submersible level transducer and 2 watertight cord grip fittings that must be installed on site. The following guide is intended to serve as an example for mounting the submersible level transducer provided with your controller. Actual jobsite conditions may require variations of this method to be implemented.



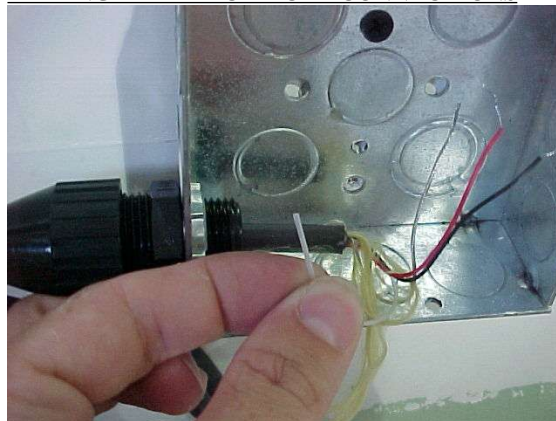
SUSPENDING THE SENSOR

An example of a typical installation is shown above. In this example you can see that 2 conduit boxes have been used for the installation. The sensor has been provided with two cord grip fittings which have been installed in the conduit boxes. Each fitting and box serves a different purpose.



On the leftmost box (shown above) the fitting has been installed so that the sensor can be suspended over the well or tank and then adjusted to the proper level. The sensor is locked in place by tightening the cord grip. Alternately, a flange or other mounting support could be used to mount the cord grip to as required by the application. The cable for the sensor has been designed to hold the weight of the sensor without any additional support.

MAKING THE ELECTRICAL CONNECTIONS



The rightmost box (above) is used as the electrical junction box.

WARNING!
THE ELECTRICAL JUNCTION BOX MUST STAY DRY AT ALL TIMES! FAILURE TO KEEP THIS BOX DRY WILL CAUSE A SENSOR MALFUNCTION AND VOID YOUR WARRANTY.

If the location is susceptible to moisture then a weatherproof box should be used and sealed appropriately. The box should not be located where it could become submerged. The vent tube must not be blocked or removed. Leave it loose in the junction box. In climates with high humidity the use of a desiccant bag is suggested to keep the junction box dry.

DO NOT CUT OFF THE EXCESS CABLE!

Coil it up between the two boxes as shown in the first picture so that the sensor can be adjusted or relocated in the future.

FINAL ADJUSTMENTS

With the sensor mounting completed it should be adjusted so that it just touches the bottom of the well (right). If the well is subjected to severe sludge buildup then it is recommended that the sensor be suspended above the normal sludge line. Be aware that lifting the sensor above the sludge line will offset the reading by the same amount. If this offset exceeds jobsite requirements, contact your factory representative for recalibration of level display.

