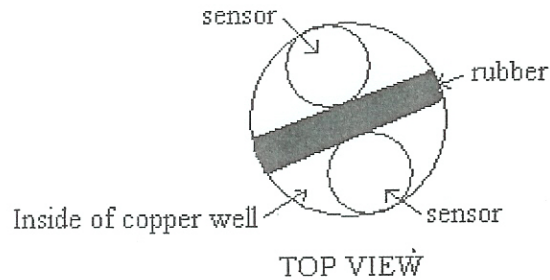


INSTALLING TEKMAR SENSORS IN ½" COPPER WELLS

We need the sensors to be in good contact with the copper wall on the inside of the sensor well. A 7/16" wide x 1 ½" long piece of rubber is placed between the sensors to hold them against the wall as shown below.



Removing sensors and preparing Temp Well for new sensors:

1. Set the unit for heat, heating the tank until the heat set point controller is satisfied. This is needed so moisture can not condense in the Temp Well during the sensor replacement.
2. Use a narrow blade knife to cut the silicon caulk so the sensors can be carefully removed from the top of the Temp Well.
3. After removing the original sensors, use something like a rifle bore cleaner to swab out the Temp Well, making sure the inside of the well is free of any moisture.

Installation of new sensors:

4. Hold the two sensors tightly with the pad between them. Carefully insert the sensors and pad into the Temp Well. While putting the sensors into the Temp Well, use care so that the sensor wire insulation is not damaged by the edge of the 3/8" tube.
5. Using the rifle bore cleaning tool carefully push the sensors and sensor wires into the Temp Well until it bottoms out at the end of the well.
6. Use a small amount of silicon caulk to seal and hold the sensor wires in the top of the Temp Well. This provides the required moisture seal. Moisture in the well will cause the sensors to fail. Allow the silicon caulk to cure undisturbed.
7. After connecting the sensor wires to the set point controllers, the system can resume normal operation.