TITAN
Industrial Heating Systems

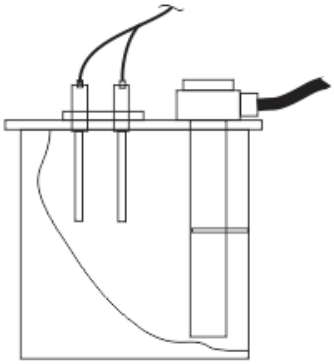
Made in USA

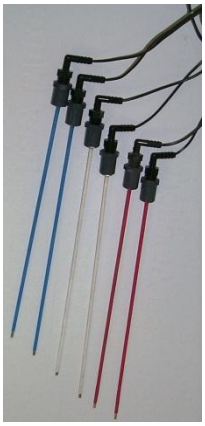
Liquid Level Sensor

There are many types of solution level sensors. It is a matter of choosing the right one for your application and performing adequate maintenance. For our customer base, we have narrowed it to these three designs:

A) Conductivity

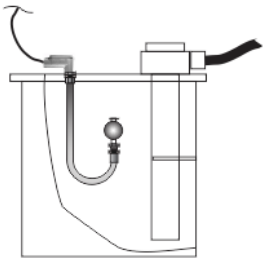
The conductivity type system is a small electrical system that passes 12 Volts from one prong to the next prong when in solution. In the absence of solution, the system opens the control circuit. This system is not designed for dielectric (DI) water.
The system comes in (2) or (3) prongs. The (2) prong style shuts the power off when the level drops. The (3) prong style can ADD water to a system. When the low probe is exposed, the water solenoid valve opens and fills the tank until the top probe is reached.

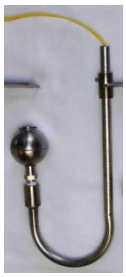




B) Float Switch

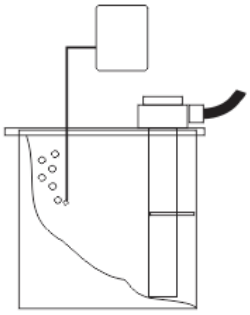
The float type switch is used mainly on rinse tanks or tanks without hygroscopic solutions (which have a tendency to “cake” up at the solution level locking the float in place, making it ineffective) This system is used on Hot Seal tanks and DI water.





C) Air Bubbler System

The air bubbler system is a non-conductive level control system used in electroless Nickel-, Copper-, Gold-, Rhodium-, Palladium– or Platinum plating tank systems. Using an air inducing pump, a pressure switch is activated with the back pressure created from the solution level height of the solution. The plastic tubing portion in the solution ensures no “plating up”.



A second line of defense is the Automatic Thermal Switch that turns the power to the heater off when a set sheath temperature is exceeded. This option is available on most metal over the side and L-shaped bottom heaters.

Liquid Level Controller

All of the above mentioned liquid level sensors can be connected to this liquid level controller.

Temperature Controller

We manufacture single and multi-zone temperature controllers.