



Figure 2.1 Temperature-salinity-density diagram.

Thus, to measure the salinity of any water sample, all you need is a thermometer and an instrument known as a hydrometer to measure the density. A hydrometer is a precisely weighted sealed glass tube that floats in water at different levels, depending on the density of the water. Some hydrometers measure the density of water and require a T-S-D diagram to convert to units of salinity. Others, specifically designed for measuring salinity, are calibrated in units of salinity and provide direct salinity readings without referring to conversion charts or tables.