

TIPS & TRICKS

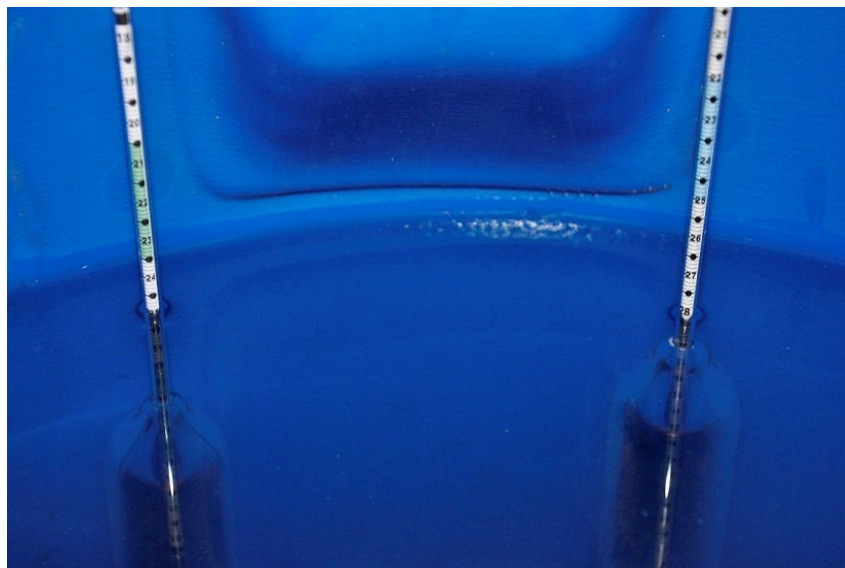
Explanation of the difference between hydrometers sold in Germany (and German speaking countries) and hydrometers sold in the rest of the world

In Germany, we use the “density” (Dichte) as the unit to measure the salt content. The density is defined as the weight per volume, so the unit is kg/l. The standard temperature is 4°C. It follows that pure water at 4°C and 1013 mbar has a density of approx. 1 kg/l.

At a temperature of 25°C, the density of water is less than 1. Seawater with a salinity of 35 ppt has a density of approx. 1,023 kg/l. Our recommendation on the hydrometer (the **green part**) should be 1,022 - 1,024.

In all other countries, the “specific gravity” (also sometimes called “relative density”) is used to measure the salt content. It is defined as a comparison with a reference solution, so there is no unit. Often it is water at 4°C which is taken as reference.

Unfortunately, the specific gravity which is used in the aquarium field compares the measured result with water measured at 25°C. This means that the specific gravity of seawater of 35 ppt is 1,026 – compared to water measured at 25°C. Our recommendation therefore is 1.025 - 1.027 (**blue part** of the hydrometer).



Tropic Marin® Aräometer

Tropic Marin® Hydrometer