

# Refractometer

for safe and easy determination  
 of the salt content of sea water



## Advantage of the AquaCare Refractometer for Sea Water

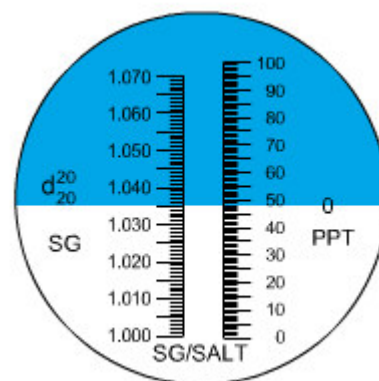
- Automatically working temperature compensation (10 – 30°C)
- Easy calibration
- Quick results
- Best overview with two scales (salinity and specific gravity)
- Small sample volume
- High precision
- Working without electric current

## Methods for measuring the salinity:

Method	Principle	Advantages	Disadvantages
Hydrometer	The buoyancy of a float depends on the density of the liquid	simple method; cheap	very fragile; only long hydrometers are precise enough sensitive to dirt not temperature compensated
Electrical conductivity	The salinity changes the electrical conductivity	works in very low-salt and high-salt water	expensive; aquaristic units are not precise; needs energy
Refractometer	The salt content changes the optical refraction	simple method; cheap; needs no energy; easy to read the value; temperature compensated	sensitive optics

## Technical Data:

order number: ..... 620-010  
 range salinity: ..... 0...100 ppt or 0...100‰  
 range specific gravity: ..... 1.000...1.070 kg/kg  
 resolution: ..... 1 ppt / ‰ or 0.001 kg/kg  
 accuracy: ..... ±1 ppt / ‰ or 0.001 kg/kg  
 temperature of calibration: ..... 20±1°C  
 temperature for measuring: ..... 10...30°C  
 temperature for storing: ..... 4...40°C  
 weight: ..... 200 g



scale of AquaCare refractometer