



APARAT
Konduktometar
Conductometer

PROIZVOĐAČ I MODEL
Mettler Toledo SevenGo

KONDUKTOMETAR

Kratki opis metode

Dvije ploče određenog stujnog potencijala se urone u uzorak te se mjeri struja. Konduktivitet (G), obratan od otpora (R) se određuje iz voltaže i izmjerene struje prema Ohm-ovom zakonu:

$$G = I/R = I \text{ (amps)} / E \text{ (volts)}$$

Konduktometar se prije upotreb mora kalibrirati pomoću standardnih otopina.

Short description of the method

Two plates are placed in the sample, a potential is applied across the plates (normally a sine wave voltage), and the current is measured. Conductivity (G), the inverse of resistivity (R) is determined from the voltage and current values according to Ohm's law.

$$G = I/R = I \text{ (amps)} / E \text{ (volts)}$$

Conductivity meters and cells should be calibrated to a standard solution before using.

Namjena

Instrument je namjenjen mjerenju električne vodljivosti u tekućim uzorcima.

Purpose

Purpose of the instrument is measuring electrical conductivity in liquid samples.

Tehničke značajke

Rezistentnost 0.00 – 100.00 M Ω cm; Temperatura -5 do 105 °C; Konduktivnost 0.10 μ S/cm – 500 mS/cm; TDS 0.10 mg/L – 300 g/L; Salinitet 0.00 -80 ppt

Technical characteristics

Resistivity 0.00 – 100.00 M Ω cm; Temperature -5 do 105 °C; Conductivity 0.10 μ S/cm – 500 mS/cm; TDS 0.10 mg/L – 300 g/L; Salinity 0.00 -80 ppt

Tip i priprava uzorka

Anorganski/organski; prirodni/sintetski; u tekućem stanju.

Sample type and preparation

Inorganic/organic; naturally occurring/synthetic; liquid.