

Hand Refractometer Instructions Operating

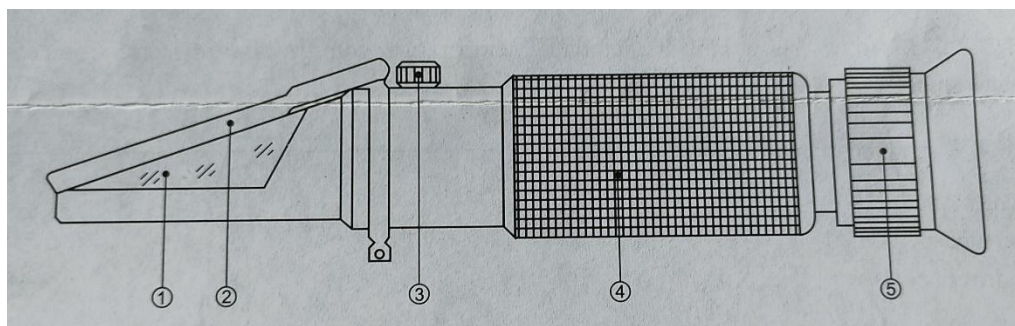
Series -----

No.	Model	Measuring Range	Minimum Scale	Size (mm)	Weight (g)
1	REF201/211/201bp	0-100‰ Salinity	1‰	26/30 x 40 x 19	185
2	REF202/212/202bp	0-28% Salinity	0,2%	26/30 x 40 x 170	175
3	REF203/213	0-10% Salinity	0,1%	26/30 x 40 x 190	200

Note: 1. Each of the models in Series catalog with footnote “bp” has a prism base made of black engineering plastics.

2. “Weight” listed here refers to the weight of plain type refractometer.

Name of components-----



1. Prism
2. Cover plate
3. Correcting screw
4. Mirror tube
5. Eyepiece (Adjusting ring of diopter)

Method of operating-----

1. Aim the front end of the refractometer to the direction of bright light and adjust the adjusting ring of diopter 5 until the reticle can be seen clearly.
2. Adjustment of null

Open the cover plate 2, drop distilled water one or two drops on the surface of the prism. Close the cover plate, rotate and adjust the correcting screw 3 to make the light/dark boundary coincide with null line.

(Adjustment of refractometer with temperature compensation function should be made under the condition of 20°C environmental temperature).

3. Open the cover plate 2 clean the water on the prism surface of prism and cover plate by soft cotton flannel, then drop one or two drops liquid which is needed to be checked on the prism surface and cover the cover plant. The corresponding dial reading of the light/dark boundary can get the percent of the salt content of the liquid.
4. The carved line on the left of scale indicates the specific gravity of the sodium chloride liquor.
5. After measurement, please clear directly the liquid which had been measured on the surface of prism by soft cotton flannel. After drying, please keep appropriately in store.

Attentions and maintenance-----

1. Adjusting of the null liquid and specimen should be under the same temperature. If the temperature varies greatly, the null point should be adjusted once per 30 minutes.
2. After usage, don't use water to wash the instrument.
3. As it is a kind of precision optical instrument, you should hand it gently and take good care of it. Don't touch and scratch the optical surfaces. It should be kept in the environment of dry, clean and non-corrosiveness air, so as to prevent the surface of it turning mouldy and foggy. Please avoid strong shock during transportation.
4. If the consumers use the instrument in accordance with the mentioned method of usage, it guarantees that instrument can't break down. The optical performance can't change.

Temperature Compensation-----

REF211/212/213 Model has a built-in automatic temperature compensation system. Compensation temperature range 10 °C to 30 °C

Accessory-----

1. Cleaning cloth 1
2. Suction tube 1
3. Screw driver 1