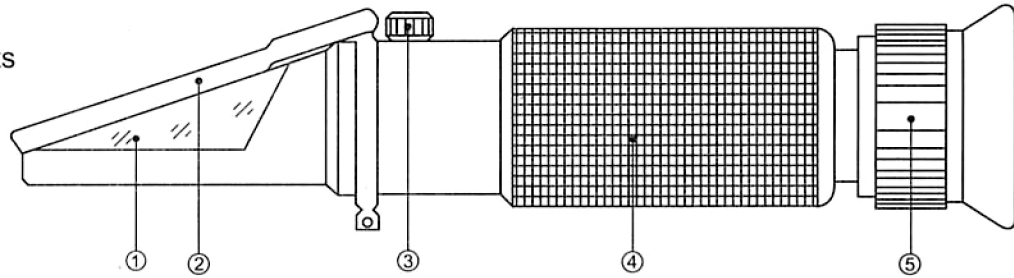


Measuring Range	Minimum Scale	Size (mm)	Weight (g)
0-32% Brix	0.2%	26/30 x 40 x 170	175/200/110

Name of components



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

Method of operation

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 one or two drops of distilled water on the prism. Close the cover plate and press it lightly. Then adjust the correcting screw 3 to make the light/dark boundary coincide with the 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 surface of prism by soft cotton cloth. Drop 1~2 drops of solution to be measured. Close the cover plate. Press it lightly, then read the corresponding scale of light and dark boundary. The reading is the Brix of measured solution.
4. After measurement, clean away the measured solution on the surface of prism and cover plate by moist cotton cloth. After drying, it should be stored perfectly.

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, so as to prevent water from entering into the instrument.
3. As it is a kind of precision optical instrument, you should handle 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-corrosive air, so as to prevent the surface of it from 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 can be guaranteed that the instrument can't break down. The optical performance can't change.

Temperature Compensation

The reference of temperature is 20°C. In operation, the temperature compensation should be made according to the table. Brix/ATC is a refractometer provided with an automatic temperature compensation function, so correction of the temperature according to the table is not needed.

Temperature Correction Table for Saccharose Solution (Reference temperature is at 20°C)

Temperature °C	Quality Fraction %																	
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
	Subtract from measured value																	
10	0.52	0.58	0.59	0.61	0.64	0.67	0.69	0.71	0.72	0.74	0.74	0.75	0.76	0.77	-	-	-	-
11	0.48	0.51	0.54	0.55	0.58	0.61	0.63	0.65	0.65	0.67	0.67	0.68	0.68	0.69	-	-	-	-
12	0.44	0.47	0.49	0.50	0.52	0.55	0.57	0.58	0.58	0.60	0.60	0.60	0.60	0.61	0.61	-	-	-
13	0.39	0.42	0.43	0.44	0.45	0.49	0.50	0.51	0.51	0.53	0.53	0.53	0.53	0.53	-	-	-	-
14	0.35	0.37	0.38	0.39	0.40	0.42	0.43	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.46	-	-	-
15	0.29	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37
16	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30
17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
18	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
19	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
	Add to the measured value																	
21	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
22	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15
23	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22
24	0.27	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30
25	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.37
26	0.42	0.43	0.44	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.45
27	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.55	0.55	0.54	0.53	0.52
28	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.64	0.64	0.65	0.65	0.64	0.64	0.64	0.63	0.62	0.61	0.60
29	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.73	0.73	0.73	0.73	0.72	0.72	0.71	0.70	0.69	0.68
30	0.74	0.75	0.77	0.78	0.79	0.80	0.81	0.81	0.81	0.82	0.81	0.81	0.81	0.80	0.79	0.78	0.77	0.75