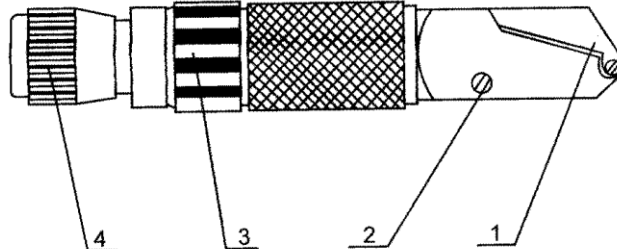


Handheld Refractometers

MODEL REFI08 0~80%Brix

NAME OF COMPONENTS



- 1.Cover Plate 2.Correct screw 3.Adjusting wheel 4.Adjusting ring of diopter

DESCRIPTION

Model REFI08 can be used for measuring of the concentrated solution of sugar. The wide range is ideal for substances with wide concentration.

THE MAIN TECHNICAL DATA

Measuring range: 0-50%Brix; 50-80%Brix

Minimum scale: 1%Brix

METHOD OF OPERATION

1. Aim the front end of the refractometer to the direction of bright light, and adjust the adjusting ring of diopter 4 until the reticle can be seen clearly.
2. Adjustment of null
Open the cover plate 1, put one or two drops of distilled water on the prism, close the cover plate and press it lightly, then adjust the correct screw 2 to make the light/dark boundary coincide with the null line.
3. Open the cover plate clean the surface of Prism by soft cotton flannel, 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 concentration solution of sugar.
4. When measure solution of high concentration, can be rotate adjusting wheel 3. until another turning point, there would be 50~80% scale in the view. then reentrant operating No.3.

5. After measurement, clean away the adherence on the surface of prism and cover plate by moist gauze. After drying, it should be stored perfectly.

ATTENTIONS AND MAINTENANCE

1. After usage, don't use water to wash the instrument, so as to avoid water entering into the pipe of the instrument.
2. 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.**
3. The reference of temperature is 20°C in operation, the temperature compensation should be made according to the table.

ACCESSORY

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

Reference temperature 20°C, Temperature corrections for subtract solution

| 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 | 0.74 | 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 | 0.67 | 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 | 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 | 0.38 | 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 |

