



1. Prism
2. Cover Plate
3. Calibration screw
4. Mirror tube
5. Diopter ring

METRIA

Portable analogue refractometer

1. Contains:

Refractometer, transfer pipette screwdriver, calibration solution (only for PREF-B82-001 and PREF-B92-001), calibration block (only for PREF-B82-001 and PREF-B92-001) and soft cloth.

2. Preparation:

Aim the refractometer front end into a bright light source and adjust the diopters ring until the reticle can be seen.

3. Calibration:

A: (For PREF-B20-001, PREF-B32, 001, PREF-B50-001, PREF-AL6-001 and PREF-AL7-001) Open the cover lid, drop one or two drops of distilled water on the prism surface, press the lid to close it and adjust the screw until the light/blue boundary coincides with the null line.

B: (For PREF-B82-001 and PREF-B92-001) Open the cover lid, drop one or two drops of calibration solution on the polished surface of the calibration block. Open the cover plate, stick the calibration block on the prism surface and press it lightly to avoid sliding down. Rotate and adjust the calibration screw until the light coincides with the reference line (set at Brix 78.8%).

4. Measurement:

Open the cover plate, clean the prism surface with a soft paper, drop one or two drops of the solution to measure. Close the cover plate and hold it firmly to read the scale of light and dark boundary.

5. Maintenance:

After measurement, clean the prism surface and the cover plate with a moist gauze. Calibration with liquids and samplings must be done on the same temperature

range. If the temperature changes noticeably the device should be calibrated again.

Do not use water for cleaning after use. It could damage the device interior.

This is a precision optical instrument. Handle it gently and take good care of it. Do not touch or scratch the optical surface. Please keep it in a dry, clean and non-corrosiveness environment, to prevent the surface from turning mouldy or damaged.

5. Temperature compensation:

This ATC device contains an Automatic Temperature Compensation system that allows the user to concentrate on the measurements. The compensation range is from 10°C to 30°C.