



MANUAL REFRACTOMETER 254



Non-contractual picture

PRESENTATION

The portable **MANUAL REFRACTOMETER 254** is a precision optical instrument intended for inspection or checking the freezing point of the propylene-glycol and ethylene glycol solutions. It is provided in a plastic box, with a screwdriver and a pipette

Reading: from - 50 °C to 0 °C
Graduation: 5 °C,

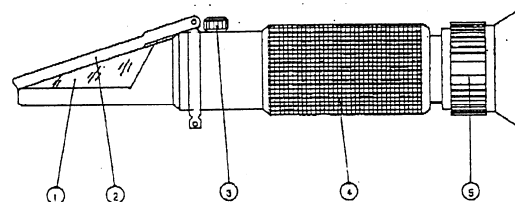
Dimensions: 27 x 40 x 160 mm,
Weight: 176 g

USE

Point the front end of the refractometer in the direction of the light source and adjust the focussing ring (5) until the reticle can be distinctly read.

Adjust to zero: open the covering slide (2) and drop one or two drops of distilled water on the surface of the prism, then close the slide and press it slightly. Adjust using the correction screw (3) to join the demarcation line clear/obscure with the level line.

Measure: to open the covering slide (2) and remove the surface water from the prism and the slide with a soft cloth then pour 1 or 2 drops of liquid to be tested with the pipette on the surface of the prism. Close the covering slide and press it slightly. The reading of the freezing point of the liquid is done on the boundary line clear/obscure of the dial.



1. Prism
2. Covering Slide
3. Correction Screw
4. Mirror Tube
5. Eyepiece with focussing ring

PRECAUTIONS AND MAINTENANCE

Calibration of the apparatus must be precise: the adjustment to zero with distilled water and measuring of the sample must be made at the same temperature so that measurement is accurate. After each measurement, clean the prism and the plastic lid with a soft rag. The refractometer must be perfectly clean and dry before being tidied up as any residual impurity could cause measurement errors.

Do not touch nor mark the optical surfaces, keep the instrument in a clean, dry environment, away from corrosive air.

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