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**ISQ-RM30
PORTABLE REFRACTOMETER
OPERATION MANUAL**

PLEASE SCAN QR CODE
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VIDEO OF PRODUCTS

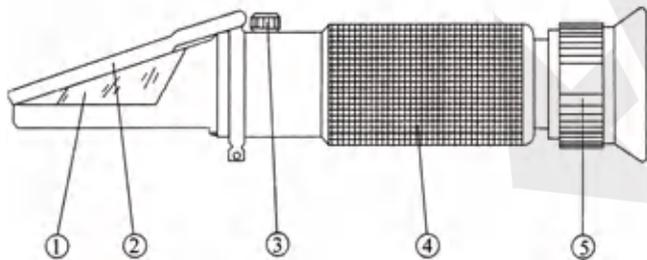


Attention

- ◆ Adjustment for the null liquid and specimen should be in the same temperature. Once the temperature move greatly, the null point should be adjusted once per 30 minutes.
- ◆ After usage, do not use water to wash the instrument, so as to avoid water entering the inside of the instrument.
- ◆ 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 and foggy. Please avoid strong shock during transportation.
- ◆ If the consumers use the instrument in accordance with the mentioned method of usage, the optical performance should not be changed.

Description

Quickly measure the concentration of coolant. Structure:



1) prism 2) cover plate 3) calibration screw
4) optic tube 5) eyepiece and focus adjustment

Operation

- ① Prepare: Aim the front end of the refractometer in the direction of a bright light, and adjust the focus until the reticle can be seen clearly.
- ② Calibration: Calibration A: This calibration just use for measure from 0%. open the cover plate, drop one or two drops of distilled water on the prism surface, closed cover plate, press it lightly, then adjust the correct screw to make the light/blue boundary coincide with null line.
- ③ Clean the lens and drop one or two drops of coolant on the prism surface, closed cover plate, press it lightly and read the value.

Note:

- 1.Refer to the refraction factor of coolant, for example:the refraction factor of grinding emulsion is 2.1, the reading value is 6%,so the actual concentration is(2.1x6%)=12.6%
- 2.Because of the fine particles inside the coolant, there will be slight particle precipitation covering the surface of the test port prism during the measure process, resulting in blurred vision, which is a normal phenomenon, and the

- ④ Clean and dry the liquid on the prism, put the instrument into box.