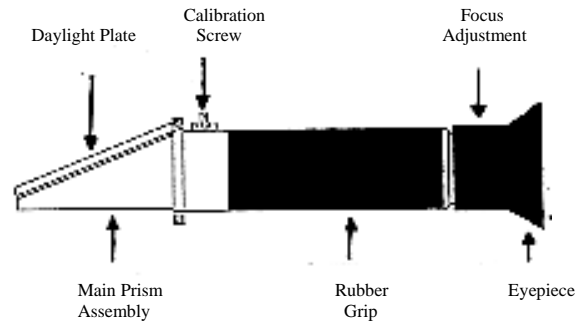




The MR series refractometers are precision optical Instruments used for measuring concentrations of substances in aqueous solutions. They work using the principle of light refraction through liquids. When passing light through a liquid the refracted angle will be shown on the scale determining the amount of dissolved solids in the liquid.



**Calibration:** Open daylight plate and place 1 or 2 drops of distilled water on the prism. Close the daylight plate so that the water spreads across the entire surface of the prism without air bubbles or dry spots.

Hold daylight plate in direction of the light source and look into the eyepiece.

Turn the calibration screw until the boundary between the upper blue field and the lower white field meets exactly on the zero scale.

**Temperature:** The MR series refractometers are adjusted to read at a temperature of 20°C (68°F). The prism and sample must be at the same temperature for accurate readings.

If temperature of your sample changes it is suggested to use refractometers with Automatic Temperature Compensation. They will adjust automatically within the 10-30 °C range.

**Maintenance:** Accurate measurements depend on a careful calibration – Clean the prism before and after each measurement using a soft cloth – Do not immerse the instrument in water – Do not measure abrasive or corrosive chemicals. They can damage the prism's coating.

**Warranty:** Each refractometer is warranted from all defects in materials and manufacturing for a period of 1 year from the date of purchase. If during this period, the repair or replacement of parts is required, where the damage is not due to negligence or erroneous operation by the user, please return the parts to either dealer or our Office and the repair will be done free of charge.

**Note:** We reserve the right to modify the design, construction and appearance of our products without advance notice.