

The Reichert Rhino series hand held optical refractometers are water resistant, dustproof, shock resistant, temperature compensated, accurate and affordable. These refractometers have the highest International Protection code of IP67. This IP67 covers the entire refractometer from the eyepiece to the prism. Be aware of companies that claim their refractometers have an IP rating, but only below the eyepiece. In other words, their refractometers are not fully protected against water/moisture and dust in the field or factory environment. The only hand held optical refractometer that is fully covered from one end of the instrument to the other end is the Reichert Rhino series refractometer.

All Reichert Rhino series hand held optical refractometers have a mechanical Automatic Temperature Compensation feature. Measurements taken with a refractometer are sensitive to temperature. As temperature rises, the measurement will fall. As temperature drops, the measurement will rise. When this occurs, the measurement accuracy will be compromised. Reichert Rhino technology with ATC will ensure that every measurement is accurate and consistent in all types of environments, indoors and outdoors.

This engineering drawing of the Reichert Rhino series hand held refractometer shows the optical system with the ATC mechanical feature. This consists of a Bi-Metal Strip and Optical Wedge that moves with temperature changes:

