

The Pocket Goniometer

The Pocket Goniometer is a battery operated instrument that measures static contact angle and dynamic surface hysteresis for laboratory and field applications related to gluing, printing and surface related problems. It is an ideal tool for checking contamination of a specimen and the effects from cleaning and surface treatments.

By placing a liquid droplet on a specimen surface a contact angle is formed at the contact area. A droplet that "beads up" is non-wetting and a contact angle greater than 90° is displayed. When the droplet "wets out" across the surface, wetting is obtained and the contact angle is less than 90°.

A 6x magnified image of the droplet is displayed on the built-in screen. A reading is quickly made by rotating the protractor until the lines are parallel to the tangent at the contact point. An optional eye-piece provides 7x magnification of the test sample for very accurate readings.



A liquid droplet is projected on a built-in screen for quick analysis.



The Pocket Goniometer provides a rapid measurement of static contact angle.

Test Applications:

The contact angle can be measured in different ways depending on the test application.

Static Contact Angles & Dynamic Surface Hysteresis testing is valid for smooth, solid surfaces where the test liquid does not penetrate into the substrate. For liquids with high viscosity (e.g. glycerine) the contact angle reading is taken when the liquid droplet is at "equilibrium".

Features:

- Portable unit
- High quality lens system
- Battery operated
- Long life light source (expected lifetime of 70,000 hours)
- Industry Standards:
 - ASTM D724
 - TAPPI T458
 - SCAN P 18

Item No.	Description
N001-014	POCKET GONIOMETER

24-HOUR PRODUCT SERVICES

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