



PocketGoniometer PGX+

Model 68-76

A convenient tool for measuring dynamic contact angle from Testing Machines, Inc., a leader in innovative testing instrumentation for all industries.



The model 68-76 *PocketGoniometer PGX+* is a portable, video-based instrument designed for quality control applications. To perform a measurement, simply place the unit directly on the specimen and press "start." No sample cutting or preparation is required, saving set up time and eliminating the need for sample manipulation.

The integrated pump delivers accurate droplets in steps of 0.5 μl and the built-in camera captures single droplet images to determine the static contact angle at "equilibrium" or a sequence of images to measure the dynamic wetting, rate of sorption and spreading as a function of time. The PGX+ software measures surface tension of the test liquid, calculates the surface energy of a solid and includes a report generator. The PGX+ is connected directly to the USB port of a laptop or a desktop computer.

The PGX+ is shipped in a carrying case complete with a User's Manual, software for Windows XP/Vista/7/8/8.1 (32 and 64 bit), a calibration kit, spare pump tubing and a droplet dispenser.

KEY FEATURES

Checks Surface Properties

for Contamination, Adhesion and Printability of metals, polymers, glass, paper, board and more

Portable and Convenient

no sample cutting required

Measures Static Contact Angle

on non-sorptive surfaces

Measures Dynamic Contact Angle

as wetting, absorption and spreading over time

Measures Surface Tension

determined from the shape of a pendant droplet

Determines Surface Energy

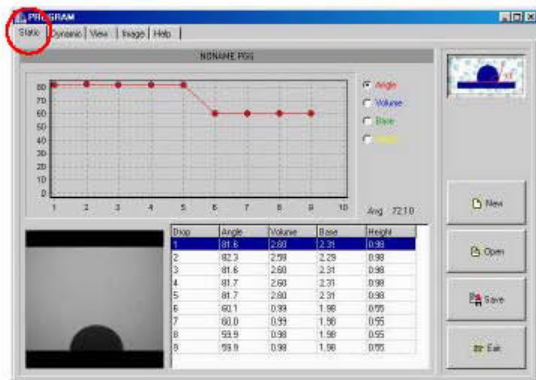
using one or more probing liquids

SPECIFICATIONS

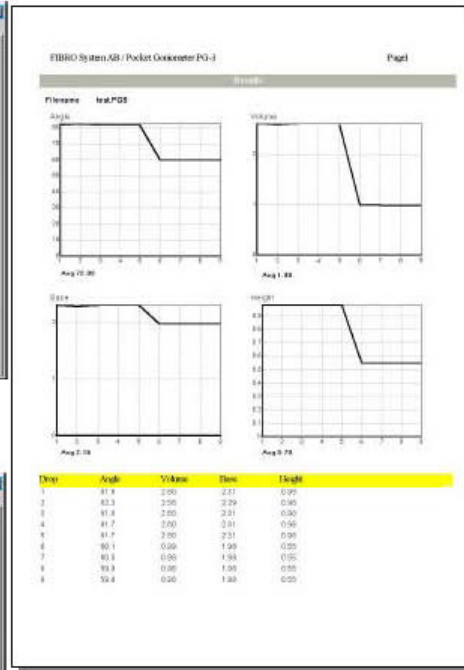
- Small size - 90 (L) x 55 (W) x 90 (H) mm
- Integrated camera - captures 80 images/sec (640x480 pixels)
- Built-in pump - delivers precise droplets in 0.5 μl steps
- Automatic Droplet Application - Static and Dynamic Mode
- Runs on most PC & Laptops (USB)
- Easy to install – no hardware to put inside computer!
- User-friendly software for Windows XP/Vista/7/8/8.1 (32 and 64 bit)
- Instrument software based on 32-bit and 64-bit operating systems
- Complies with TAPPI T458, ASTM D-724, ASTM D-5946

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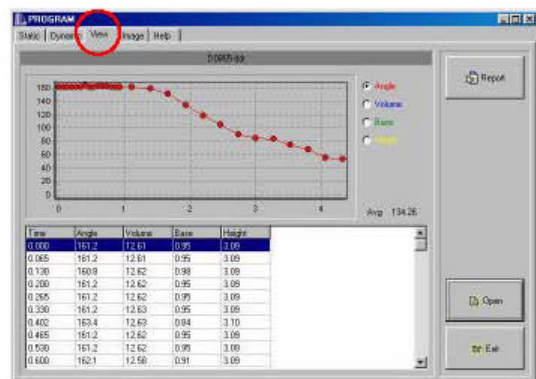
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1. Static results from 5 + 4 droplets on two solid substrates



2. Dynamic results from a droplet on an absorbent substrate



3. Stored data can be retrieved by the Viewer or a spreadsheet

