



TQC PGX+ Pocoler Goniometer

Small and easy to handle

The PGX+ measures contact angle (dynamic and static), surface tension, and surface energy. The PGX+ makes a drop in μl according to the size that is set. The drop is automatically released and 80 images per second are made. The instrument is used for paper & board, solar cell panels, windshields, metal cylinders and similar surfaces. For most tests deionized water is used, however using other liquids is also possible.

Features

- Easy to handle
- Full control of the test
- No sample preparation
- Registration with 80 frames/second
- Static and Dynamic contact angle, surface 'free' energy, surface tension
- Multiple test fluids possible
- Runs on any Windows computer
- Power from USB connection

International Standards

TAPPI T458. ASTM D-724. ASTM D-5946.

Portable Instrument

The PGX+ is portable and therefore easy to use even in the field. The small instrument is connected to a PC or laptop and gets its power through USB.

Static and Dynamic Contact

Both the Static and Dynamic Contact Angle is measured. Almost every 1/100th of a second an image is taken capturing the change of the contact angle.

Dosing Unit

The optional dosing unit enables you to use fluids with higher viscosity. Because of the more precise dosing this option is also more consistent.

Test Results

80 frames per second gives you a great opportunity to physically see how the drop shapes. The computer uses the frame to give you 80 calculations per second.

Surface Energy

Surface "free" Energy (SFE) is the available force on a solid surface to attract the liquid molecules. The SFE is calculated after performing the test.

Surface Tension

The shape of the pendant droplet is registered by the camera. The shape of the droplet gives information on the intermolecular forces.

Specifications

Model: 68-76

Droplet Volume: 0.5-10 microliter

Results: Images and statistics

PGX+ Software: Included

Changing fluids: Possible

Installation Requirements

Electrical: Through USB - A connection

Dimensions: 90 x 55 x 90 mm (LxWxH)

Mass: 500 grams

Output: Through USB to proprietary software

Ordering Details

PG1000 PGX+ Pocket Goniometer

PG1010 Dosing Unit

PG1023 Liquid Container Kit (with & w/o plug)

PG1171 Steel cannulus tip 0.5mm (min order quantity 10 pcs)

PG1025 Applicator Tubing between Syringe and Tubing Dispenser, 5pcs

PG1021 Pump Tubing (PTFE) suitable for most liquids, 5pcs

PG1027 Pump Tubing (silicone) suitable for Diiodomethane, 2pcs

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