



## PGX+ Pocket Goniometer

### PG1000

The PGX+ measures contact angle (dynamic and static), surface tension, and surface energy. The PGX+ makes a drop in  $\mu\text{l}$  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 and board, solar cell panels, windshields, metal cylinders and similar surfaces. For most tests deionized water is used, however, using other liquids is also possible. Contact us if you want to use any other liquids.

During testing the instrument is connected to the special PC software. The software gives you an easy overview of the possible tests. During the test the data is transferred to the computer. The pictures taken and the results can be stored and analyzed. Thanks to the direct feedback, adjustments to improve the results can easily be made.

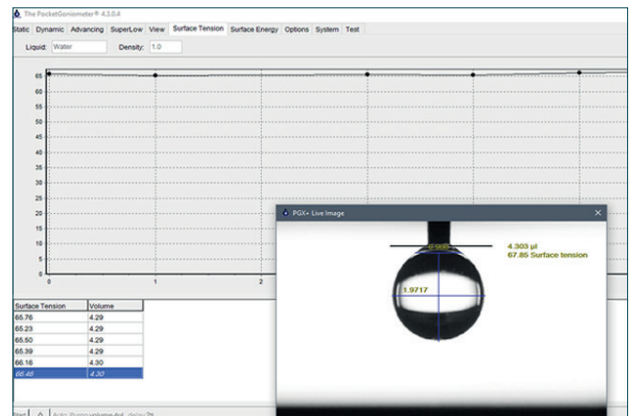
## Portable instrument

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



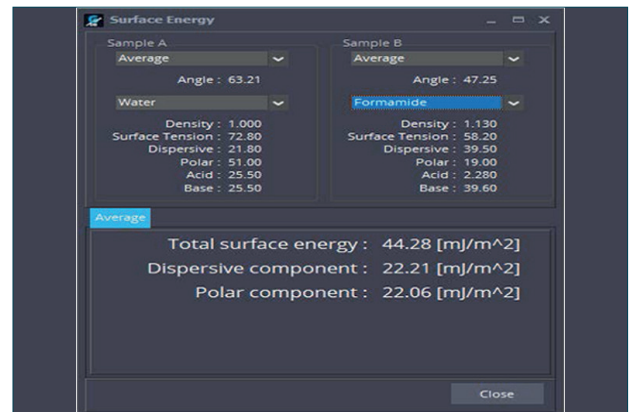
## Static and Dynamic Contact

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



## 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.



Vertrieb in Deutschland durch:

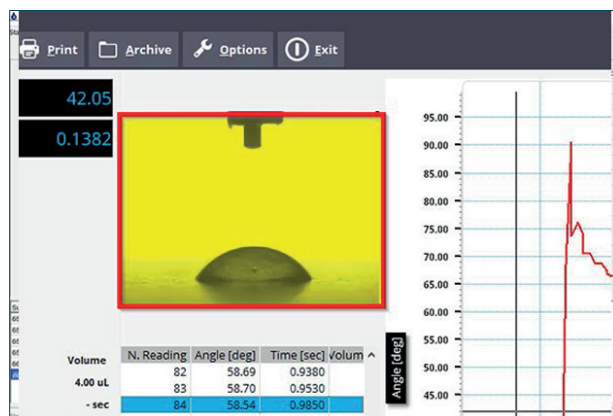


Luhne Messtechnik e.K.  
Neusser Straße 103  
41363 Jüchen  
02165/1719972

[info@luhne-messtechnik.de](mailto:info@luhne-messtechnik.de)  
[www.luhne-messtechnik.de](http://www.luhne-messtechnik.de)

## Surface Tension

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



## Test results

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



## 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.



Vertrieb in Deutschland durch:



Luhne Messtechnik e.K.  
Neusser Straße 103  
41363 Jüchen  
02165/1719972

[info@luhne-messtechnik.de](mailto:info@luhne-messtechnik.de)  
[www.luhne-messtechnik.de](http://www.luhne-messtechnik.de)

## Standards

TAPPI T458, ASTM D-724, ASTM D-5946

Looking for a different standard? Contact us.

## Features

- Easy to handle, small sized
- 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 every Windows computer
- Power from USB connection

## Technical Specification

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 90mm (L x W x H)
Weight	500g

## Output

Through USB to proprietary software

## Ordering Details

PG1000	PGX+ Pocket Goniometer
PG1010	Dosing unit
PG1023	Liquid Container Kit (with & w/o plug), 5+5 pcs
PG1171	Steel cannulus tip 0.5mm (min order quantity 10 pcs}
PG1025	Applicator Tubing between Syringe and Tubing Dispenser, 5 pcs
PG1021	Pump Tubing (PTFE) suitable for most liquids, 5 pcs
PG1027	Pump Tubing (Silicone) suitable for Diiodomethane, 2 pcs

Vertrieb in Deutschland durch:



Luhne Messtechnik e.K.  
Neusser Straße 103  
41363 Jüchen  
02165/1719972

[info@luhne-messtechnik.de](mailto:info@luhne-messtechnik.de)  
[www.luhne-messtechnik.de](http://www.luhne-messtechnik.de)