



**MODEL 68-76**

# FIBRO PGX+

A portable, video-based instrument designed for quality control applications.

## Small and easy to handle

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 & 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.

## Test results

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.

## 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

## International Standards

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

Looking for a different standard?

Contact us.

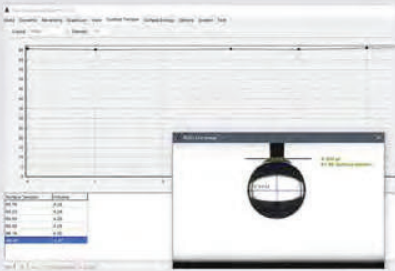


[www.fibro-system.com](http://www.fibro-system.com)



### 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 USB.



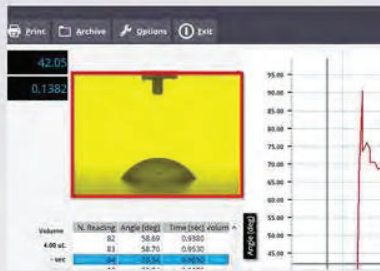
### Surface Tension

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



### Static and Dynamic Contact

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



### 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



### Surface Energy

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



### 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.

### Specifications

|                        |                       |
|------------------------|-----------------------|
| <b>Model</b>           | 68-76                 |
| <b>Droplet Volume</b>  | 0,5 – 10 microliter   |
| <b>Results</b>         | images and statistics |
| <b>PGX+ software</b>   | Included              |
| <b>Changing fluids</b> | Possible              |

### Installation requirements

|                   |                            |
|-------------------|----------------------------|
| <b>Electrical</b> | through USB - A connection |
| <b>Dimensions</b> | 90 x 55 x 90 mm (LxWxH)    |
| <b>Mass</b>       | 500 gram                   |

### Ordering Details

| <i>Art. No.</i> | <i>Description</i>  |
|-----------------|---|
| <b>PG1000</b>   | PGX+ Pocket Goniometer  |
| <b>PG1010</b>   | Dosing unit   |
| <b>PG1023</b>   | Liquid Container Kit (with & w/o plug), 5+5 pcs               |
| <b>PG1171</b>   | Steel cannulus tip 0.5 mm (min order quantity 10 pcs)         |
| <b>PG1025</b>   | Applicator Tubing between Syringe and Tubing Dispenser, 5 pcs |
| <b>PG1021</b>   | Pump Tubing (PTFE) suitable for most liquids, 5 pcs           |
| <b>PG1027</b>   | Pump Tubing (Silicone) suitable for Diiodomethane, 2 pcs      |

### Output

Through USB to proprietary software



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Fibro System , TQC Sheen and C&W Specialist Equipment are part of Industrial Physics Inks & Coatings division.