

# Surface Tension

## Pocket Goniometer PGX+

The PocketGoniometer PGX+ is a convenient device to quality control surface properties for contamination, adhesion, surface tension, and printability. The sample substrates can be coatings, plastic polymers, paper, and glass. The PGX+ is a portable device that is placed directly onto the sample surface eliminating sample preparation. The instrument has a video camera and dosing pump to precisely delivery a 0.5 µl droplet. The PGX+ is connected directly to a laptop or PC using a USB port. The camera image can be analyzed for static contact angle, dynamic contact angle, surface tension, and surface energy.

- Surface energy determination using more than one probing liquids
- Surface tension measurement from droplet shape – tangent angle analysis
- Dynamic contact angle to measure the wetting, absorption, spreading rate properties
- Automatic droplet application for static or dynamic mode
- Portable size for convenient sample measurement

### Ordering Information

Cat. No.	Description
1937	PocketGoniometer PGX+

#### Comes complete with:

Calibration kit, Spare pump tubing, Droplet dispenser, Software, Carry case

**Note:** Software for Windows XP, Vista, 7, 8, 8.1, (32 and 64 bit)

## PG Dosing Unit

The PG Dosing Unit is a stand-alone pump used in unison with the PocketGoniometer PGX+ to measure contact angle. The PG Dosing unit has disposable syringes for quick change-over of different liquids to conduct surface energy studies. If tacky liquids or hard to clean liquids are used, the disposable syringes save time and expense.

### Ordering Information

Cat. No.	Description
1938	PG Dosing Unit

#### Comes complete with:

5 disposable syringes, 5 Dispensing tips 0.2 mm, 5 Dispensing tips 0.5 mm, 5 Dispensing tips 0.9 mm, Carrying case, Power adapter

### Ordering Information

Cat. No.	Description
1939	Syringe, Disposable
1942	PTFE tubing 1.5/0.2 mm
1943	PTFE tubing 1.5/0.5 mm
1944	PTFE tubing 1.5/0.9 mm
1945	Dispensing tip 0.2 mm
1946	Dispensing tip 0.5 mm
1947	Dispensing tip 0.9 mm



### Standards

ASTM	D724, D5946
ISO	15989
TAPPI	T458



### Technical Specifications

Preset Droplet Volumes	Programmable volumes	Voltage	Dimensions	Weight
2, 4, 8 µl	0.1 - 20 µl	100 - 240V	160x55x55mm	500 grams

### Accessories

Information
100 pieces, 1 ml volume
100 pieces, Length - 250 mm
100 pieces, Length - 250 mm
100 pieces, Length - 250 mm
50 pieces
50 pieces
50 pieces