

SITA



**NEW**

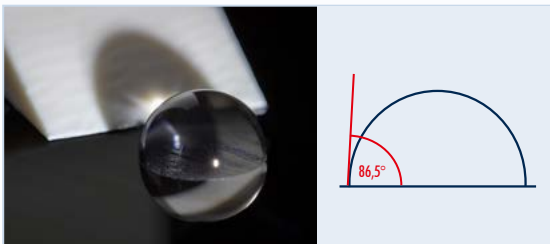
**SITA *SurfaSpector***

Fast evaluation of surface wettability  
in manufacturing processes  
by measuring the contact angle

The SITA SurfaSpector is a new hand-held measuring device for testing the wettability of metal, glass and plastic surfaces, e.g. after surface treatment or cleaning. The device combines an objective measurement with simple handling and enables a fast evaluation of the surface.

- Automated measuring procedure including drop placement, drop detection and direct determination of the contact angle
- Handy sensor head for measuring at various parts geometries
- Simple operation via touchscreen
- Mobile use without PC directly at the plant or in the process
- Limit value monitoring in measuring profiles usable for various applications
- Optional PC software SITA-SurfaceLog for advanced measurement data visualization and export

## Measuring principle



A drop of water is precisely placed at the surface by an automatic dosing unit. The drop is illuminated from the side. A shadow of the drop is projected onto an inclined measuring surface. The projection is recorded from above by a high resolution camera and the picture is corrected for perspective. The drop shape is determined and the contact angle calculated. The lower the contact angle, the higher the wettability.

## Technical Data

### Contact angle

Range	5° ... 175°
Resolution	0.1°
Liquid	pure water, refillable, 5 ml for 5,000 measurements

### Method

Optical determination of the contact angle of a lying drop	
Drop volume	1 $\mu$ l
Min. sample surface	5 x 5 mm

### Operation

Main unit	5" TFT-display 800 x 480 pixel, capacitive touch, intuitive graphical user interface
Sensor	measurement start button, LED for optical feedback

### Power supply / interfaces

Li-Ion battery	2x 6,400 mAh, min. measurement time 6 hours
Power plug	12 V, 2.5 A (max. 17 V, 3 A)

### Interfaces and memory

USB	USB-C (data transfer, USB-C power delivery)
Memory	10 GByte

### Dimensions and weight

HxWxD / Weight	Main unit: 80 x 210 x 130 mm / 1,100 g Sensor: 117 x 50 x 82 mm / 330 g
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### Accessories

Calibration standard, stand

## Applications


- Quality assurance after parts cleaning
- Wettability inspection
- Testing of surface activation, e.g. after a plasma treatment and many more applications in surface analysis



### Contact

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