

SITA

Process Solutions

# SITA *DynoTester* +

Measuring  
Surface Tension –  
Controlling  
Surfactant  
Concentration



# SITA *DynoTester* +

## Features

### Functional

- Display of surfactant concentration within defined limits
- Measured values can be compared with all SITA lab and process tensiometers
- Automatic inspection and calibration with water

### Precise

- SITA bubble pressure method: independent of immersion depth of capillary
- Measuring parameter bubble lifetime: 15 ms (highly dynamic) to 30,000 ms (quasi-static)
- 50 measuring profiles for bath control, process documentation and more
- Optional Windows-Software SITA LabSolution

### Mobile

- Simple measurement at the touch of a button
- Mobile measurement without PC or laptop
- Data interface via USB

### Flexible

- Patented and optimised capillaries for process use
- Robust device housing for atline measurement
- Comfortable case with stand for transport and device storage
- Battery capacity of min. 10 operating hours



# Easy testing of surface tension and concentration

## Applications

- Controlling the surfactant concentration in industrial parts cleaning processes
- Monitoring the wetting agent concentration in electroplating baths
- Measuring the surface tension of liquids at the plant or in the laboratory
- Quality control of inkjet inks, paints and lacquers/varnishes
- Incoming and outgoing inspections of surfactant containing liquids
- Mobile use for external work



**The SITA DynoTester+  
optimally supports process  
monitoring and quality control tasks.**

## Technical data

### Surface tension

Measuring range	(10...100) mN/m (dyn/cm)
Measuring deviation	max. 1% of full scale value
Resolution	0.1 mN/m (dyn/cm)
Reproducibility	0.5 mN/m

### Bubble lifetime / surface age

Adjustable range	(15...30,000) ms
Measuring deviation	max. 1 ms
Resolution	1 ms
Control deviation	5 %

### Sample temperature

Measuring range	(0...100) °C
Measuring deviation	max. 0.5 %, adjustable
Resolution	0.1 °C
Reproducibility	0.3 K

### Concentration

Measuring range	user-defined
-----------------	--------------

### Power supply

Mains adapter / USB	100...240 V / 5 V
Li-Ion Battery	3.6 V / 2,000 mAh min. 10 h operating
Power consumption	2.5 W max.

### General data

USB-interface	data transfer and device operation
Display	LCD, illuminated
Measuring profiles	50
Memory	1,000 readings/profile
Acceptable ambient temperature (storage/operation)	(-20...50) °C / (10...40) °C
Measuring gas	Ambient air
Dimensions (HxWxD)	168 x 75 x 35 mm
Weight	270 g

## Windows-Software SITA LabSolution (optional)

- Management and graphical analysis of saved measuring data
- Documentation and evaluation of the process and products' characteristics
- Simple and easy preparation of measuring reports
- Controlling the measurement via PC in the laboratory
- Simple generation of individual concentration curves

## Contact

SITA Messtechnik GmbH  
Gostritzer Straße 63  
01217 Dresden  
Germany

Tel.: +49 (0)351 8 71 8041  
Fax: +49 (0)351 8 71 8464  
info@sita-messtechnik.de  
www.sita-messtechnik.de