# 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.**

# SITA *DynoTester* +

## 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

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