Measuring the Surface Tension – Controlling the Surfactant Concentration

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Windows-Software SITA-ProcessLog (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 concentration curves based on defined samples

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)

Bubble lifetime / surface age
Bubble lifetime range 15…20,000 ms
Max. deviation  5 %

Sample temperature
Measuring range 0…10 0 °C
Resolution 0.1 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.

Interface, memory, dimension, weight
USB-interface  data transfer
Display LCD, illuminated
Measuring profiles 25
Memory 25 readings/profile
Dimensions (HxWxD)    168 x 75 x 35 mm
Weight 260 g

Contact
Design:                         | Photos: Jürgen Jeibmann

SITA DynoTester+

Measuring the Surface Tension – Controlling the Surfactant Concentration
Easy testing of surface tension and concentration

Advantages

Precise
- Display of surfactant concentration within defined limits
- Measured values can be compared with all SITA lab and process tensiometers
- Automatic calibration with integrated temperature compensation in water

Flexible
- Highly dynamic bubble lifetime range adjustable: 15 ms...20,000 ms
- 25 measuring profiles for bath control, process documentation and more
- Optional Windows-Software SITA-ProcessLog

Mobile
- Intuitive operation: simple, fast measuring and controlling
- Mobile hand-held tensiometer: no PC or notebook required
- Battery capacity of min. 10 operating hours

Robust
- Patented and optimized capillary for process use
- Robust device housing for on-line measurement
- Comfortable suitcase for transport and device storage, also useful as working surface
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.

www.DynoTester.com
### Technical data

<table>
<thead>
<tr>
<th>Surface tension</th>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
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</tr>
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<td>100...240 V / 5 V</td>
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<tr>
<td>Measuring deviation</td>
<td>Li-Ion Battery</td>
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<tr>
<td>max. 1% of full scale value</td>
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<tr>
<td>Resolution</td>
<td>Power consumption</td>
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<td>5 %</td>
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| Concentration                    |                                |
| Measuring range                  | user-defined                    |

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