Measuring the Surface Tension – Controlling the Surfactant Concentration

SITA Messtechnik GmbH
Tel.: +49 (0)351 8 71 8041
Gostritzer Straße 63   Fax: +49 (0)351 8 71 8464
01217 Dresden   info@sita-messtechnik.de
Germany   www.sita-process.com | www.sita-lab.com

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 °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

Hand-held Tensiometer
M05-100008  /  Version 3.0

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 water

**Flexible**
- SITA bubble pressure method: independent of immersion depth of capillary
- Measuring parameter bubble lifetime: 15 ms (highly dynamic) to 20,000 ms (quasi-static)
- 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
- USB interface for data transfer

**Robust**
- Patented and optimized 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

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

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...100 °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
- Power consumption: min. 10 h operating, 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

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
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