Measuring Surface Tension — Controlling Surfactant Concentration
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

**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

**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
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: (-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

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