

SITA



Tensiometer

SITA *pro line* **t15**

Strong performance in three disciplines

# SITA *pro line* t15

USB interface for data transfer and instrument control with SITA online software

Process interface for simple integration in process control



Quick access to routine functions

Ergonomic design for intuitive operation

Temperature control in the sample

Large memory for long-term measurements

Easy cleaning of capillaries

Three measuring modes to suit the measuring task

Automatic calibration with water

Clear display of the instrument status

Temperature measured close to the capillary

Range of capillaries for various measuring tasks



## Strong performance in three disciplines

# SINGLE Mode

Quick and reliable mode for control tasks.

Displays one individual surface tension measurement with precisely defined parameters.

- Control of surface tension in cleaning baths
- Monitoring of liquids containing surfactants in plants or laboratories
- Control of electroplating baths
- Quality control of inks and paints

Date day.mo.yr.	Time h:min	Surface tens. mN/m	Temperature °C	Dosage ml
01.06.2006	10:15	45,7	35,8	0
01.06.2006	16:20	51,2	35,6	10
02.06.2006	10:10	43,6	35,9	0
02.06.2006	16:15	47,2	36,1	0
03.06.2006	10:05	50,5	35,7	10

Protocol June 2006

## ONLINE Mode

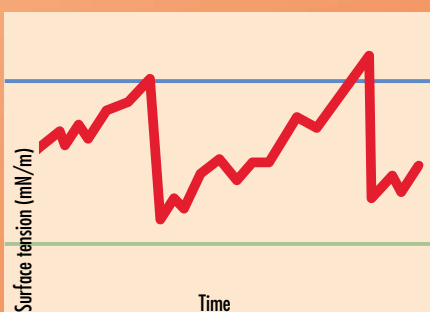


## AUTO Mode

Dedicated mode for continuous monitoring of production processes.

User can easily adjust the measurement parameters.

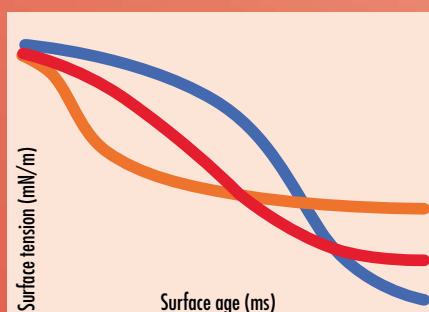
- Monitoring of industrial cleaning processes
- Continuous monitoring of surfactant level
- Automatic recording of temperature effects
- Processes for cleaning metal parts, galvanic baths and semiconductor production, etc.



Ideal mode for research and development.

Test measurement range, number of data points and the averaging of measured values can be set individually.

- Evaluation of the surfactant effects
- Research on the kinetics of surfactants
- Characterisation of wetting behaviour in processes
- Product development for cleaning, galvanic baths, inks, paints, etc.



# Strengths in all disciplines

# SITA *pro line t15*

## Research & Development (R&D)

The AUTO mode quickly and easily generates characteristic dynamic surface tension curves for surfactant formulations.

SITA online software (optional) allows SITA pro line t15 to be operated from a computer and displays the measured results graphically.



## Quality control

The SINGLE mode quickly and easily measures the surface tension value. SITA pro line t15 regulates the bubble lifetime and automatically calculates the average values.

The protocol printer (optional) prints the measured results together with time, date and fields for name and signature of the person recording the data.



## Monitoring processes

Process interface exists for controlling the device (measuring, cleaning, calibration) and for outputting the surface tension and temperature values as an external, electrical signal to interface to a PLC (Programmed Logic Controller).

The ONLINE measuring data can be stored for several months.



## Technical data

3 measuring modes: SINGLE, ONLINE, AUTO

Surface tension measuring range: 10 ... 100 mN/m  
Resolution: 0.1 mN/m  
Repeatability: 0.5 mN/m

Controlled bubble lifetime range: 15 ... 20000 ms  
Accuracy: 5%

Temperature measuring range: 0 ... 100°C  
Resolution: 0.1°C  
Accuracy: 0.1°C

### USB interface

- Provides instrument control and data transfer via a PC
- Enables independent power supply

### Process interface (optional)

- Output of the measured surface tension and temperature values as an external signal to interface to a PLC (Programmed Logic Controller).
- Control of the device through external electrical switching via the user

Weight: 270 g

Dimensions: (W x H x D) in mm: 75 x 168 x 35

Sensor length: 68 mm

Visual and audible signals for measurement status

# SITA

*Advanced Cleaning Control*

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