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SINTERFACE

Competence in Science and Instrumentation

Tensiometry

BPA-1P

BPA-1S

DVA-1

PAT-1

PAT-2P

STA-1

STA-2

DPA-1

2D-Rheology

ODBA-1

ISR-1

Foams

FA-1S

TFA-1

Emulsions

DBMM-1

Fluid Dynamics

Tensiometer STA-1



Simple tensiometer for easy surface tension measurements

Ring and Plate tensiometry belong to the classical methods for measuring the surface tension of liquids

The principle is to measure the weight of a meniscus hanging on a ring or plate

Our solution does not require an extra force transducer as any accurate laboratory balance is suitable to complete this instrument

Easy handling and operation with a modern Windows software.

Both manual and automatic versions are available.

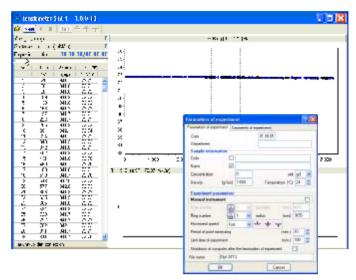
Density of a liquid can be measured as well by the immersion of a body of known volume.

Instrument parts

- analytical laboratory balance
- automatically motor driven movement of the ring or plate or manual movement by a linear stage
- holder for a ring, plate or immersion body

The instrument allows the following measurements

- surface tension of liquids
- ring and plate method
- determination of density with an immersion body
- correction factors after Harkins and Jordan
- contact angle measurements with the immersing plate technique
- easy to handle instrument and Software
- also available as manual instrument
- use with any PC or laptop



Fields of Application

Surfactant science Ink jet printing Coating technology Foam and emulsion technology Detergency

Pharmacy Cosmetics Food technology Medicine and biology Ecology

Technical Data

Range of surface and interfacial tension

Time range

Measuring options:

- Du Nouy ring method
- Wilhelmy plate method
- Density determination

Range of contact angle measurement

Software

Size of device (L x W x H)

- manual version (without balance)
- automatic version (without ballance)

Weight

- manual version (without balance)
- automatic version (without balance)

Power supply

Extra accessories

1 to 1000 mN/m;

resolution: ± 0.1 mN/m (with balance ± 0.1 mg)

1 s to 10 h

standard routine

standard (optional contact andge)

for liquid density < 2 g/cm³

10° to 170° accuracy ±0.3°

Windows software

(free update over 1 year after purchase)

100 x 100 x 300 mm 200 x 50 x 250 mm

1 kg 2 kg

100 ... 240 AC; 50 ... 60 Hz; 55 W

Wilhelmy plate

immersion body for density measurements

temperature controlled cell

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