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SINTERFACE

Competence in Science and Instrumentation

Drop Volume Tensiometer DVA-1



Classical method to measure the surface and interfacial tension of liquids

Direct setting of time

Principle is based on the accurate determination of the volume of drops detaching from circular capillaries.

Fast drop formation allows short time measurements.

Instrumental parts

very compact construction automatic dosing system temperature controlled measuring cell data acquisition via RS-232 automatic refilling automatic cleaning procedure

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

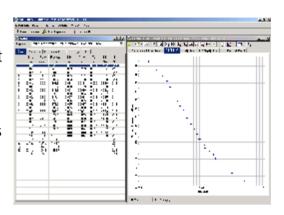
DBMM-1

Fluid Dynamics

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Features of the instrument

- surface and interfacial tension of liquids
- dynamic interfacial tensions in a time range of less than one second up to several minutes
- complements the profile analysis tensiometry at short times, in particular for liquid/ liquid interfaces
- use with any PC or laptop
- no time-consuming filling procedure as It refills automatically from a reservoir
- temperature controlled cell
- small size, small price, and easy to handle
- correction of the viscosity effects at short drop times



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:

constant drop formationtime scan (standard)

Drop formation

Syringe volume (automatic refill)

Density difference

Software

Measuring duration

Measuring option:
- constant drop time

- standard mode
Temperature range

Size of device (L x W x H)

Weight Interface

Power supply

1 to 100 mN/m; resolution: ± 0.2 mN/m

0.2 s to about 1000 s 0.2 s to about 1000 s

single drops

averaged number of drops

0.1, 0.25, 0.5, 2.5 mI

 $> 0.1 \text{ g/cm}^3$

Windows software

(free update over 1 years after purchase)

1 min to 1 hour

arbitrary number of points

selection of points in a user given time interval

10 ... 80°C

200 x 200 x 210 mm

3 kg

RS-232

24 VDC, 40 W

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