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

SINTERFACE

Competence in Science and Instrumentation

Maximum Bubble Pressure Tensiometer BPA-1P



New development based on more than 10 years of experience in bubble pressure measuring technique. Many new instrumental details have been published recently, such as the determination of bubble time characteristics from the gas flow signal.

Four different measuring modes available.

Process controlling option on board.

BPA-1P is the simplified version of the BPA-1S representing the high end instrument in bubble pressure tensiometry.

Two different displays - text or graphic - available.

Features

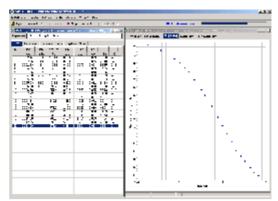
- direct and precise measurement of dead time and life time
- surface tension as function of physical time and adsorption time
- available time interval of 3 orders of magnitude (0.01 to 10 s)
- precise measurement of correct dynamic surface tensions
- direct determination of the hydrostatic pressure via automatic capillary Immersion
- correction of effects from gravitation and viscosity of the liquid
- temperature monitoring of the sample
- can be used as stand-alone device

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Software

BPA-1P operates as stand-alone instrument. It stores data on board for 180 measurements. Data download from the instrument to a PC via RS-232 or USB port. The software allows graphical display of several measurements for comparison. Graphics with various zoom functions supports the visual analysis of the data. Export as text file or directly into MS Excel.



Pharmacy Cosmetics

Ecology

Food technology

Medicine and biology

Fields of Application

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

Technical Data

Range of surface and interfacial tension Reproducibility ov measured values Accuracy of surface tension

Dynamic time range

Display - text display - graphic display

Min. volume test liquid

Temperature range

Experimental time: - Standard mode (M1) / Fast Mode (M4)

Software

Number of measurement point: - All scan modes (M1, M3, M4) - Constant mode (M2)

Memory on board

Process controlling option

Dimensions (L x W x H): - Measurement unt / Tripod

Weight: - Measurement unit / Tripod

Power requerment: - Measurement unit

- Power supply

- Max. power consumption

External battery (optional)

Extra accessories

10 to 100 mN/m; ± 0.1 mN/m +0.25 mN/m

10 ms to 10 s

4 x 20 characters bw 320 x 240 pixel

1 ml

room temperature

20-30 min / 4-6 min

Windows software (free update over 1 years after purchase)

max. 180 min.30000

2 MB

on board (functions on request)

70 x 110 x 200 mm / 60 x180 x 300 mm

1 kg / 2 kg

12 VDC 100 ... 240 AC; 50 ... 60 Hz 6 W

min. operating time 5 h

capillaries of different diameter, temperature control jacket for 0... 80 °C www.sinterface.com

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