## **Bubble Pressure Tensiometer**

## **BP100**

Specifications





Product group specifications BP100

Pressure measurement		
Maximum pressure Precision Accuracy Measurement rate	3000 Pa 0.05 % 1.3 % 20 kHz	
Sample stage		
Travel distance Simple platform Thermostat jacket  Drive	>110 mm optional 70 mm	
Resolution Travel speed Type of motor	16 nm 0.1 to 500 mm/min brushless DC servo motor	
Software		
LabDesk	bubble pressure	

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## Measurement specifications BP100

Bubble pressure		
Results	dynamic surface tension vs. surface age	dynamic surface tension at constant surface age
Surface tension range Resolution	10 to 100 mN/m 0.01 mN/m	
Precision Surface age range	1 % 5 to 200 000 ms	
Adsorption/diffusion		
Results Models	adsorption constant Ward & Tordai	diffusion constant Joos & Rillaerts



General specifiations	BP100
Sample dimensions	
Minimum sample volume	15 mL; sample vessel SV23 recommended
Temperature control	
Type Range Flow-through thermostat	liquid -10 to 130 °C optional
Temperature measurement	
Range Resolution Precision Accuracy Internal sensor External sensor (optional)	-10 to 130 °C  0.01 °C  ±0.05 °C  ±0.5 °C  sample stage sample vessel
Housing and peripherals	
Built-in bubble level Glass windshield doors Stainless steel measuring compartment Control pad	yes yes yes yes
Environment	
Operating temperature Humidity	15 to 30 °C without condensation
Instrument dimensions	
Footprint Height Weight (without accessories)  Power supply	300 mm × 390 mm (W × D)  585 mm  13 kg
Voltage (AC) Power consumption Frequency External gas supply (optional)  Interfaces	100 to 240 V 40 W 47 to 63 Hz 100 to 400 kPa
PC Auxiliary Thermostat External gas (optional)	USB 2.0 RS232 quick couplings quick couplings