## 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 Thermostated jacket Drive	>110 mm optional 70 mm (100 mm) <sup>1)</sup>	
Resolution Travel speed Type of motor	16 nm 0.1 to 500 mm/min brushless DC servo motor	
Software		
LabDesk	bubble pressure	

Measurement specifications	BP100	
Bubble pressure		
Results	dynamic surface tension vs. surface age	dynamic surface tension at constant surface age
Surface tension range	10 to 100 mN/m	
Resolution	0.01 mN/m	
Precision	1%	
Surface age range	5 to 200000 ms	
Adsorption/diffusion		
Results	adsorption constant	diffusion constant
Models	Ward & Tordai	Joos & Rillaerts

<sup>1)</sup> optional

General specifiations	BP100
Sample dimensions	
Minimum recommended sample volume	15 mL <sup>2)</sup>
Temperature control	
Type Range Flow-through thermostat	liquid -10 to 130 ℃ optional
Temperature measurement	
Range Resolution Precision Accuracy Internal sensor External sensor	-10 to 130 °C 0.01 °C ±0.05 °C ±0.5 °C sample stage sample vessel <sup>1)</sup>
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)	300 mm × 390 mm (W × D) 585 mm 13 kg
Power supply	
Voltage Power consumption Frequency Compressed air	100 to 240 VAC   40 W   47 to 63 Hz   100 to 400 kPa <sup>1)</sup>
Interfaces	
PC Auxiliary Thermostat External gas <sup>1)</sup>	USB 2.0 RS232 quick lock fittings quick lock fittings

<sup>1)</sup> optional <sup>2)</sup> sample vessel SV23 recommended



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