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	>110 mm optional 70 mm	
Drive		
Resolution Travel speed Type of motor	16 nm 0.1 to 500 mm/min brushless DC servo motor	
Software		
LabDesk	bubble pressure	
Software languages		

German, English



measurement specimeations		DI 100	
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		01 mN/m	
Precision		1 %	
Surface age range	5 to 200 000 ms		
Adsorption/diffusion			
Results	adsorption constant	diffusion constant	
Models	Ward & Tordai	Joos & Rillaerts	
General specifiations	ı	BP100	
Sample dimensions			
Minimum sample volume	15 mL; sample vessel SV23 recommended		
Temperature control			
Туре	liquid		
Range	-10 to 130 °C		
Flow-through thermostat	optional		
Temperature measurement			
Range	-10 to 130 °C		
Resolution	0.01 °C		
Precision	±0.05 °C		
Accuracy	±0.5 °C		
Internal sensor	sample stage		
External sensor (optional)	sample vessel		
Housing and peripherals			
Built-in bubble level	yes		
Glass windshield doors	yes		
Stainless steel measuring compartment	yes		
Control pad	yes		
Environment			
Operating temperature	15 to 30 °C		
Humidity	without condensation		
Instrument dimensions			
Footprint	300 mm × 390 mm (W × D)		
Height	585 mm		
Weight (without accessories)	13 kg		
Power supply			
Voltage (AC)	100 to 240 V		
Power consumption	40 W		
Frequency	47 to 63 Hz		
External gas supply (optional)	100	to 400 kPa	
Interfaces			
PC		JSB 2.0	
Interfaces PC Auxiliary		RS232	
PC	quick		

BP100

Measurement specifications