BUBBLE PRESSURE TENSIOMETER — BP100

SPECIFICATIONS





BP100

Pressure measurement	
Maximum pressure Precision Accuracy	3000 Pa 0.05 % 1.3 %
Measurement rate Sample stage	20 kHz
Travel distance Resolution Travel speed Type of motor Simple platform Thermostated jacket	>110 mm 20 µm 0.09 to 500 mm/min brushless DC servo motor optional 70 mm (100 mm) 1)
Software	
LabDesk	bubble pressure

Measurement specifications

BP100

Bubble pressure		
Result	dynamic surface tension vs. surface age	dynamic surface tension at constant surface age
Surface tension range Resolution Precision Surface age range	15 to 100 mN/m 0.01 mN/m 1% 5 to 200000 ms	
Adsorption/diffusion		
Result Models	adsorption constant Ward & Tordai	diffusion constant Joos & Rillaerts

¹⁾ optional

General specifiations	BP100	
Sample dimensions		
Minimum recommended sample volume	15 mL ²⁾	
Temperature control		
Type Range External circulator	liquid -10 to 130 °C 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 ¹)	
Housing and peripherals		
Built-in bubble level Glass windshield doors Stainless steel measuring compartment Control pad	yes yes yes yes yes	
Environment		
Temperature Humidity	operating: 15 to 30 °C without condensation	
Instrument dimensions		
Footprint Height Weight (without accessories)	300 mm × 390 mm (W × D) 585 mm 13 kg	
Power		
Voltage Power consumption Frequency	100 to 240 V 40 W 47 to 63 Hz 100 to 400 kPa ¹⁾	
Interfaces		
PC Auxiliary Thermostat External gas ¹⁾	USB 2.0 RS232 quick lock fittings quick lock fittings	

²⁾ sample vessel SV23 recommended

