

# BUBBLE PRESSURE TENSIO METER – BP100

## SPECIFICATIONS



**Product group specifications****BP100****Pressure measurement**

Maximum pressure	3000 Pa
Precision	0.05 %
Accuracy	1.3 %
Measurement rate	20 kHz

**Sample stage**

Travel distance	>110 mm
Resolution	20 $\mu$ m
Travel speed	0.09 to 500 mm/min
Type of motor	brushless DC servo motor
Simple platform	optional
Thermostated jacket	70 mm (50 and 100 mm) <sup>1)</sup>

**Software**

LabDesk	bubble pressure
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**Measurement specifications****BP100****Bubble pressure**

Result	dynamic surface tension vs. surface age	dynamic surface tension at constant surface age
Surface tension range	15 to 100 mN/m	
Resolution	0.01 mN/m	
Precision	1%	
Surface age range	5 to 200000 ms	

**Adsorption/diffusion**

Result	adsorption constant	diffusion constant
Models	Ward & Tordai	Joos & Rillaerts

<sup>1)</sup> optional

**General specifications****BP100****Sample dimensions**

Minimum recommended sample volume	15 mL <sup>2)</sup>
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**Temperature control**

Type	liquid
Range	-10 to 130 °C
External circulator	with liquid

**Temperature measurement**

Range	-10 to 130 °C
Resolution	0.01 °C
Precision	±0.05 °C
Accuracy	±0.5 °C
Internal sensor	sample stage <sup>1)</sup>
External sensor	sample vessel <sup>1)</sup>

**Housing and peripherals**

Built-in bubble level	yes
Glass windshield doors	yes
Stainless steel measuring compartment	yes
Control pad	yes

**Environment**

Temperature	operating: 15 to 30 °C storage: -10 to 70 °C
Humidity	without condensation

**Instrument dimensions**

Footprint	300 mm × 390 mm (W × D)
Height	585 mm
Weight (without accessories)	13 kg

**Power**

Voltage	100 to 240 V
Power consumption	40 W
Frequency	47 to 63 Hz 100 to 400 kPa <sup>1)</sup>

**Interfaces**

PC	USB 2.0
Auxiliary	RS232
Thermostat	quick lock fittings
Inert gas	quick lock fittings

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

