

FORCE TENSIOMETER – K20

SPECIFICATIONS



Product group specifications**K20****Force measurement**

Maximum load	50 g
Resolution	100 µg
Precision	100 µg
Measurement rate	5 Hz
Adjustment	automated, external weight
Adjustment weight	CP0501: 20 g ¹⁾

Sample stage

Travel distance	90 mm
Travel speed	2.4 to 14 mm/min
Type of motor	DC motor
Simple platform	yes
Thermostated jacket	70 mm (100 mm) ¹⁾
Integrated sample stage	yes

Software

LabDesk	data logger
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Measurement specifications**K20****Du Noüy ring**

Results	surface tension (SFT)/interfacial tension (IFT)
Range	1 to 999 mN/m
Resolution	0.1 mN/m
Correction methods	Harkins-Jordan, Zuidema-Waters, linear correction, no correction

Wilhelmy plate

Results	surface tension (SFT)/interfacial tension (IFT)
Range	1 to 999 mN/m
Resolution	0.1 mN/m

Rod method

Results	surface tension (SFT)/interfacial tension (IFT)
Range	1 to 999 mN/m
Resolution	0.2 mN/m

Liquid density

Range	1 to 2200 kg/m ³
Resolution	1 kg/m ³
Precision	±3 kg/m ³

¹⁾ optional

General specifications

K20

Temperature control ¹⁾

Type	liquid
Range	-10 to 90 °C
Flow-through thermostat	optional

Temperature measurement

Range	-20 to 150 °C
Resolution	0.1 °C
Precision	±0.2 °C
Accuracy	±0.5 °C
External sensor	sample liquid ¹⁾

Housing and peripherals

Built-in bubble level	yes
Windshield doors	yes
Control panel	integrated
Display	320 × 240 px

Environment

Operating temperature	15 to 30 °C
Humidity	without condensation

Instrument dimensions

Footprint	270 mm × 350 mm (W × D)
Height	430 mm
Weight (without accessories)	11 kg

Power supply

Voltage	100 to 240 VAC
Power consumption	40 W
Frequency	47 to 63 Hz

Interfaces

PC	USB 2.0, RS232
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