

FORCE TENSIOMETER – K20

SPECIFICATIONS



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

Maximum load	50 g
Resolution	100 µg
Precision	300 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	optional
Integrated sample stage	yes

Software

LabDesk	data logger
---------	-------------

Measurement specifications**K20****Du Noüy ring**

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

Wilhelmy plate

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

Rod method

Result	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
External circulator	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

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

Instrument dimensions

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

Power

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

Interfaces

PC	USB 2.0, RS232
Thermostat	external ¹⁾

