

# 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 <sup>1)</sup>

**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) <sup>1)</sup>
Integrated sample stage	yes

**Software**

LabDesk	data logger
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**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 <sup>3</sup>
Resolution	1 kg/m <sup>3</sup>
Precision	±3 kg/m <sup>3</sup>

<sup>1)</sup> optional

## General specifications

K20

### Temperature control <sup>1)</sup>

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 <sup>1)</sup>

### 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
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
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