



### Product group specifications

K20

#### Force measurement

Maximum load	50 g
Resolution	100 µg
Accuracy (plate method calibration)	-0.1/+0.2 mN/m
Measurement rate	5 Hz
Adjustment (optional)	automated, external weight
Adjustment weight	20 g

#### Sample stage

Travel distance	90 mm
Simple platform	yes
Thermostat jacket (optional)	70 mm
Integrated sample stage	yes

#### Drive

Travel speed	2.4 to 14 mm/min
Type of motor	DC motor

#### Software

LabDesk (optional)	data logger
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#### Software languages

English, German

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

Results	surface tension (SFT)/interfacial tension (IFT)
Range	1 to 999 mN/m
Resolution	0.01 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 <sup>3</sup>
Resolution	1 kg/m <sup>3</sup>
Precision	±3 kg/m <sup>3</sup>

**General specifications**
**K20**
**Temperature control (optional)**

Type	liquid
Range	-10 to 130 °C
Flow-through thermostat	optional

**Temperature measurement (optional)**

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

**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 (AC)	100 to 240 V
Power consumption	40 W
Frequency	47 to 63 Hz

**Interfaces**

PC	USB 2.0, RS232
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