FORCE TENSIOMETER – K20

SPECIFICATIONS

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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	70 mm (100 mm) [1]
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
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

Technical changes are reserved. K20-20170216

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