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KES-FB4-A

Surface Tester

The KES-FB4-A Surface Tester analyzes hand movements-particularly, sliding over surface-performed by artisans and professionals when judging a fabric's texture. This device performs this movement mechanically, making it possible to obtain objective numerical data.

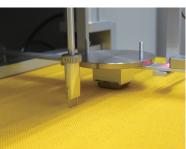
Obtainable data includes frictional coefficients, fluctuations of frictional coefficients, and surface roughness for such targets as general fabric, cloth, paper, non-woven fabric, and film-like samples. Surface friction and roughness characteristic data is useful for determining fullness and softness, smoothness, crispness.

Measurement

General fabric, Fabric, Medicinal fabric, Car seats, Interior fabric, Sample Example Non-woven fabric, Film-like samples





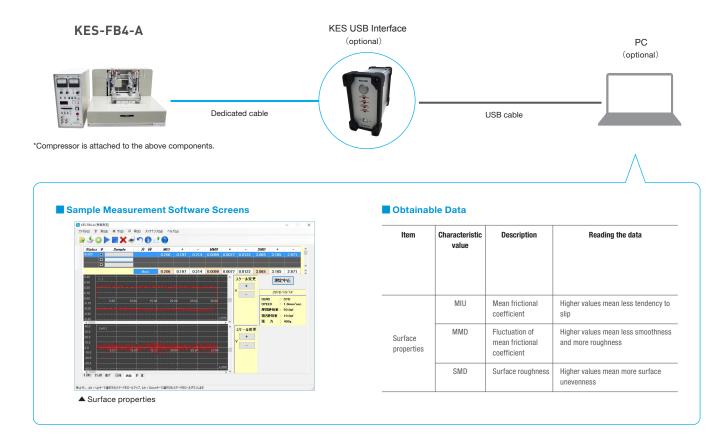


FEATURE

Sensor that imitates fingertips

The sensor unit's design features a load and surface treatment that mimics a fingertip, allowing for quantification similar to that of the human fingertip.

SYSTEM CONFIGURATION DIAGRAM / MEASUREMENT DATA



KES-FB4-A Surface Tester

Dimensions/Weight (approx.)	Measuring unit: W550 × D520 × H420 (mm) / 50 kg Amplifier: W180 × D400 × H400 (mm) / 10 kg	
Power source	100 VAC, power consumption: 50W Max. for the main device, 300W Max. for compressor.	
Measurement environment temperature and humidity	20 to 30°C / 50 to 70% RH. (No condensation.) Temperature and humidify should be kept constant during measurement. (Standard temperature and humidity conditions: 20°C / 65% RH) *The instrument should be located to minimize influence from wind or vibrations.	
Surface friction detection	Detector: Ring-type detector with differential transformer Load (full scale): 200 gf (with standard measurement) Accuracy: ±0.5% or less of full scale	

Surface roughness detection	Detector: Differential transformer Displacement (full scale): 0.4 mm Accuracy: ±1% or less of full scale	
Detection of surface measurement movement	Detector: Potentiometer Travel distance: 30 mm (Range of effective measurement distance: 20 mm) Accuracy: ±1% or less of full scale	
Filter properties	Active secondary filter: $\mu = 0.6, \ \omega \ 0 = 1 \ \text{cps}$	
Sensor size	Friction contactor: $10~\text{mm} \times 10~\text{mm}$ Roughness contactor: $0.5~\text{mm}$ diameter single wire (contact surface width: $5~\text{mm}$)	
Velocity of Sample Movement	1 mm/sec (standard)	
Sample size	Dimensions: 200 × 200 mm (standard), Thickness: 2 mm (max.)	



For safety use, please read the operation manual / the instruction carefully and throughly before using the tester.

Specification details recorded here are subject to change without notice. We appreciate your understanding.

