

TISSUE DIGITAL MICROMETER 49-5X SERIES



The Tissue Micrometer is a dedicated digital micrometer for the accurate determination of bulk and thickness, apparent bulk and density, compressibility and compressibility index of soft creped tissue paper.



FEATURES

- Large LCD display
- Electronic compensation minimizes displacement transducer non-linearity
- Rigid cast aluminum base assures thermal and mechanical stability
- Foot switch allows hands-free operation of test button
- RS-232 data output
- Range: 0 to 2 mm and 0 to 20 mm
- Resolution: 0.001 mm*
- Accuracy: ± 0.0025 mm up to 1.25 mm
- Repeatability: 0.1% of range
- Operating temperature: +20°C to +30°C

TESTING

Model 49-5X is a precision micrometer for measuring thickness of sheet materials such as Tissue, Paper, Paperboard, Textiles and Fabrics. A selection of pressure feet is available to meet a variety of standards requirements. The unit also incorporates a unique cantilever system to vary the pressure exerted on the sample by adding or removing weights. Pressure foot speed and dwell time are controlled to insure accurate and repeatable test results.

APPLICATIONS

Tissue, Paper, Paperboard, Corrugated, Cloth, Plastic, Rubber, Plastic Film, Textile Fabrics, Non-wovens, Felts, Geomaterials, Floor Coverings, Leathers and Wipes .

STANDARDS

Tissue: BS 7387, SCAN P44, SCAN M378

Paper: TAPPI T-411, EN ISO 3034, EN ISO 12625-3, ISO 534, APPITA 1301.426, PAPTAC D.4

OPTIONS

*Resolution increased by a factor of ten to 0.1 μ m (for 49-50) and to 1.0 μ m (for 49-52)

- PC Software to perform statistical analysis and display on 2 to 200 measurements
- Universal Strip Feeder Model 75-02-00-0001
- Printer

Specifications

Model	49-50-00	49-52-00
Range	0 to 2 mm	0 to 20 mm
Resolution	0.001 mm* *Resolution increased by a factor of ten to 0.1µm	0.01 mm* *Resolution increased by a factor of ten to 1.0µm
Accuracy	±0.0025 mm up to 1.25 mm	±0.02 mm
Repeatability	0.1% of range	0.1% of range
Operating Temp	+20°C to +30°C	+20°C to +30°C
Weight	13 kg (28.6 lbs)	
Dimensions W x D x H	205 mm x 240 mm x 308 mm 8.1 in x 9.5 in x 15.0 in	
Electrical	110V/60Hz or 220V/50Hz	
Ordering Information:	Model 49-50-00-0013 Model 49-50-00-0014 Model 49-50-00-0023 Model 49-50-00-0024	

Options

PC Software	to perform statistical analysis and display on 2 to 200 measurements
Universal Strip Feeder	75-02-00-0001

Standards

EN ISO 12625-3 SCAN P47	Tissue paper and tissue products - Part 3: Determination of thickness, bulking thickness and apparent bulk density
DIN 54540	Testing of hygiene products - Tissue and Nonwoven
BS7387	Method for determination of the bulking thickness, apparent bulk density, compressibility and compressibility index of soft creped tissue paper
TAPPIT-411	Thickness (Caliper) of Paper, Paperboard, and Combined Board
EN ISO 3034	Corrugated fibreboard -- Determination of thickness
ISO 534	Paper and board -- Determination of thickness, density and specific volume
APPITA 1301.426	Determination of thickness and apparent bulk density or apparent sheet density.
PAPTAC D.4	Thickness and Apparent Density of Paper and Paperboard
ISO 4593	Plastics - Film and sheeting - Determination of thickness by mechanical scanning
ASTM 6988	Guide for Determination of Thickness of Plastic Film Test Specimens

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