

DIGITAL MICROMETER 49-5X SERIES



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 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

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

STANDARDS

Textiles: ASTM D 5729, ASTM D1777, EDANA 30.4, ISO 5084, ISO 9073-2

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	

Options

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

Standards

ASTM D 5729	Standard Test Method for Thickness of Non-woven Fabrics
ASTM D 1777	Standard Test Method for Thickness of Textile Materials
EDANA 30.4	Test Method for Thickness of Non-wovens
ISO 5084	Determination of thickness of textiles and textile products
ISO 9073-2	Textiles -- Test methods for nonwovens -- Part 2: Determination of thickness
TAPPIT-411	Thickness (Caliper) of Paper, Paperboard, and Combined Board
EN ISO 3034	Corrugated fibreboard -- Determination of thickness
EN ISO 12625-3	Tissue paper and tissue products - Part 3: Determination of thickness, bulking thickness and apparent bulk density
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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