



Digital Micrometer

Model 49-85

Introducing a new digital micrometer from Testing Machines, Inc., exclusively for thickness measurements of paper.



The **NEW** model 49-85 Digital Micrometer combines a precision thickness measuring system with an ultra-clear, easy-to-read digital display. The motor-driven instrument utilizes the dead weight micrometer principle for high accuracy and repeatability. Each unit is designed and manufactured for use where the utmost precision is required.

The model 49-85's construction consists of a heavy, solid frame which supports the unit and houses the reflective linear encoder and associated circuitry. A digital readout is provided to automatically display the specimen thickness. The lower anvil and movable pressure foot is made from lapped, stainless steel.

Designed specifically with the paper industry in mind, the model 49-85 is configured to meet the international specification and test standard for paper and board, TAPPI T 411.

FEATURES

- Digital readout and superior mechanical design
- For use throughout the laboratory and production floor
- Utilizes dead weight micrometer principle
- Displays readings in microns, mils, millimeters or inches
- Zeroing on next dwell after Zero button press
- Serial output for simple data collection
- **GraphMaster™** compatible
- User-configurable calibration menu (*requires password*)
- Special anvil diameters and dead weight loads available

SPECIFICATIONS

- Range: 0-0.050 in. (0-1.27 mm)
- Resolution: 0.5 micron (0.02 mil)
- Accuracy: 1.0 micron (0.039 mil)

APPLICATIONS

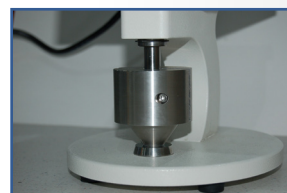
The model 49-85 is designed to measure the thickness or caliper of paper sheets with precision and ease.

STANDARDS

TAPPI T 411



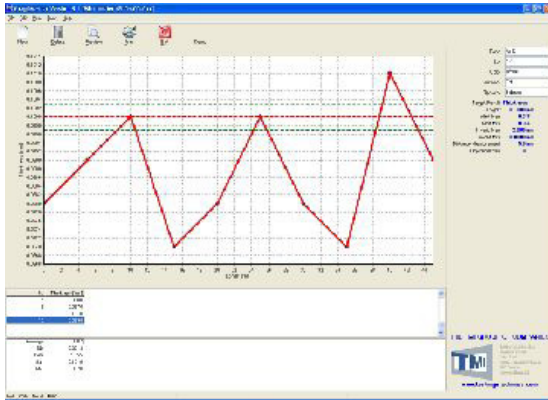
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GRAPHMASTER™ OPTION

GraphMaster™ provides data collection, plotting and analysis with export capabilities for our 49-85/87 series of Digital Micrometers. GraphMaster™ can profile a series of measurements creating a real time plot of thickness versus interval, or distance.

Sample trend and profiling analysis is easily done with user definable target, minimum and maximum values. GraphMaster™ provides a one click Database feature to save critical test information and provide export reporting for Microsoft® Windows® compatible programs.

SPECIFICATIONS	
Model	49-85
Range	0-0.050 in. (0-1.27 mm)
Resolution	0.5 micron (0.02 mil)
Accuracy	1.0 micron (0.039 mil)
Units	Microns, mils, millimeters or inches
Dwell time	2.0 +/- 1.0 sec
Lowering speed	1.0 mm/sec
Speed tolerance	+/-0.3 mm/sec
Power	90-250 VAC, 50/60 Hz

INSTRUMENT SIZE	
Height	12 in. (30.5cm)
Width	7 in. (15cm)
Depth	9.5 in. (24cm)
Weight (approx.)	22 lb. (10kg)

STANDARDS	
Paper & Board	TAPPI T 411

