



Digital Micrometer

Model 49-87

An affordable precision micrometer with advanced capabilities, now with on-board statistics to display up to 100 readings



The **NEW** model 49-87 Digital Micrometer combines a precision digital linear encoder measuring system with an ultra-clear, easy-to-read digital display. The unit has a measurement range of: 0-0.50 in. (0-12.7 mm) and is designed for thick materials such as corrugated, paper board, tissue paper, battery separators, plastic sheets and non-wovens. The motor-driven instrument utilizes the dead weight micrometer principle for high accuracy and repeatability. Each unit is designed and manufactured for the utmost precision.

The model 49-87'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 are made from lapped, stainless steel.

The unit has the capability of measuring and storing multiple readings, providing a cross machine profile. Up to 100 readings are stored and analyzed including high, low, average and standard deviation for each series of tests. Data can be permanently saved with optional GraphMaster PC-based software or printed.

FEATURES

- Digital readout and superior mechanical design
- For use throughout the laboratory and production floor
- Utilizes dead weight micrometer principle
- Units conversion for microns, mils, millimeters and inches
- Auto Zero
- Saves up to 100 readings during a continuous measurement
- On-board statistics includes high, low, average and standard deviation
- Serial output for simple data collection
- **GraphMaster™** compatible
- User configurable options: lowering speed, dwell time, time of day, zero threshold, live readings, starting units, LED pulse, set manager password
- Special anvil diameters and dead weight loads available
- Can be calibrated by the user

SPECIFICATIONS

- Range: 0-0.50 in. (0-12.7 mm)
- Resolution: 0.5 micron (0.02 mil) resolution
- Accuracy: 5.0 micron (0.197 mil) accuracy

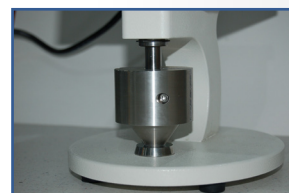
APPLICATIONS

The model 49-87 can be configured to meet a variety international specifications for different types of materials including corrugated paper, paper board, plastic film, paper, tissue paper, nonwovens, textiles and other sheet like substrates.

STANDARDS ISO 3034

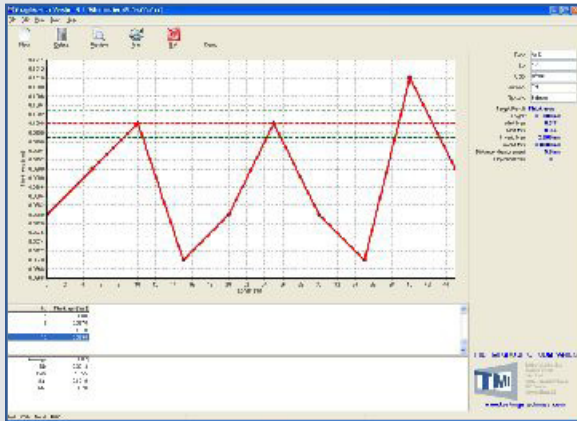


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GRAPHMASTER™ OPTION

GraphMaster™ provides data collection, plotting and analysis with export capabilities for our 49-86/87 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	49-87
Range	0-0.50 in. (0-12.7 mm)
Resolution	0.5 micron (0.02 mil)
Accuracy	5.0 micron (0.197 mil)
Units	Microns, mils, millimeters or inches
Dwell time	100 ms - 6 sec
Lowering speed	1 mm/sec, 2 mm/sec, 5 mm/sec, 10 mm/sec, max. (~11 mm/sec)
Speed tolerance	+/- 1 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	ISO 3034

