

# DIGITAL MICROMETER

## LH 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:  $\pm 0.0025$  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 Textiles, Fabrics and Non-wovens. 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

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

### OPTIONS

\*Resolution increased by a factor of ten to 0.1 $\mu$ m (for 49-50) and to 1.0 $\mu$ 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 Nonwoven 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

### Main Headquarters

**Testing Machines Inc.**  
2 Fleetwood Court  
Ronkonkoma, NY 11779  
Tel: (631) 439-5400  
Fax: (631) 439-5420  
Info@testingmachines.com

**Messmer Instruments**  
Unit F1 Imperial  
Business Estate  
West Mill, Gravesend  
Kent DA11 0DL UK  
Tel: +44 (0) 1474 566488  
Fax: +44 (0) 1474 560310

**Büchel BV**  
Fokkerstrat 24,  
3905 KV  
Veenendaal, Netherlands  
Tel: +33 (0)318 521500  
Fax: +33 (0)318 5400358

**Lawson Hemphill**  
1658 G A R Highway  
Swansea, MA 02777 USA  
Tel: (508) 679-5364  
Fax: (508) 679-5396  
Information@  
lawsonhemphill.com

**Adamel Lhomargy SARL**  
Z.A. de l'Habitat, Bâtiment  
6 Route d'Ozoir, 77680  
Roissy en Brie, France  
Tel: +33 (0) 1 6440291  
Fax: +33 (0) 1 64409211

**TMI Canada**  
P.O. Box 203  
Pointe-Claire Dorval  
QC, H9R-4N9 CAN  
Tel: (514) 426-5855  
Fax: (514) 426-1557

