



**Thwing-Albert
Instrument Company**

More Than a Century of Testing Solutions

Handle-O-Meter **Flexibility & Surface Friction Tester**

The Handle-O-Meter measures “handle” which is the combined effects of flexibility and surface friction of sheeted material such as nonwovens, tissue, toweling, film and textiles. The data generated has been shown to correlate well with the actual performance of the material in production processes and finished product performance.

Measurements are obtained effortlessly. Simply place the test sample over the slot that extends across the instrument platform and press test. A penetrator beam pivots on a cam, engages the sample and forces it into the slot. An LVDT, in conjunction with a torsion bar, measures the resistance encountered by the penetrator blade as it moves into the slot. Stiff materials offer greater resistance to the motion of the beam as it moves into the slot. Rough materials also exert resistance as they are dragged over the edge of the slot. The combined resistance is reported on a 2 x 40 character display.

Two interchangeable beams are available which provides versatility for testing different materials. Quickly change between a 100 gram and 1000 gram beam. With auto ranging, the Handle-O-Meter immediately detects the beam in use and adjusts the range and resolution accordingly. The slot width is also adjustable to accommodate samples of varying thicknesses.

Test modes can be quickly set for single, double or quadruple measurements. The average is automatically calculated for double or quadruple tests.

Advanced software enables the unit to compute and display qualitative analysis of the test results including averaging, standard deviation and the high & low readings of a series of tests.



Handle-O-Meter measures the combined effects of flexibility and surface friction of sheeted materials.

Features:

- Touch Screen Controls
- Adjustable slot openings:
5, 10, 20 mm and 1/4 in
- Interchangeable beams:
100 gram & 1000 gram
- Auto-ranging
- Enhanced Statistical Analysis with
MAP-4 Software
- RS-232 Output and Serial Port
- Industry Standards:
ASTM D 2923, D 6828-02
TAPPI T 498
INDA IST 90.3
EDANA WSP 90.3





Options

Teflon Coated Plates

Teflon plates are used primarily with plastic film to reduce static friction.

Serial Printer

A formatted report can be printed on demand, showing test results and a statistical analysis for a group of tests.

Chart Recorder

An electronic strip chart recorder provides another means of recording test results.



MAP-4 Software

Available to connect the Handle-O-Meter to a computer for realtime test results and detailed data analysis.

Physical Specifications

Dimensions (D x W x H) 368mm x 587mm x 229mm (14.5" x 23 1/8" x 9")

Gross Weight 24.5 kg (54 lb)

Net Weight 22.2 kg (49 lb)

Technical Specifications

Measurement Range

Standard Unit: 0-100 grams
Heavy Duty Unit: 0-1000 grams

Measurement Resolution

1,000 gram beam = 1 gram
100 gram beam = 1/10th of a gram

Slot Opening

5,10, 20 mm & 1/4 in

Display

2 x 40 LCD digital display

Power Requirements

Standard: 115 V \pm 10%, 60 Hz
Optional: 220 V \pm 10%, 50 Hz

Specifications subject to change without notice.

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