

Lab Master® Probe Tack Tester



INTRODUCTION

The Lab Master® Probe Tack Tester is designed for precise measurement of adhesion, tack, quick stick and cohesion. Force is measured to 0.1 gram resolution and 0.02% full-scale accuracy. Thousands of data points per test are used to generate force/distance curves that reveal material behavior during test.

APPLICATIONS

Adhesives, Tapes, Pressure Sensitive Labels, Glue, Coatings and Seals

SPECIFICATIONS

- Meets ASTM D 2979

FEATURES

- **User-selectable contact pressure, position, rate of separation and duration of test**
- **Display test results as numbers and curves**
- **Configure for R&D analysis or one-touch automated process control**
- **RS-232 output**

- **Includes Windows operating system and touch screen flat panel display in a compact, network ready unit**
- **Innovative design (patent pending) maintains accuracy over changing loads and frequent use.**

INSTRUMENT SIZE

Depth: 535 mm (21.00 in.)
Height: 880 mm (34.75 in.)
Width: 490 mm (19.25 in.)

WEIGHT

50 kg (110 lb)

CONNECTIONS

Electrical: Auto-ranging Power Supply
· 100-120 V nominal $\pm 10\%$, 50/60 Hz
· 220-240 V nominal -5% $+10\%$, 50/60 Hz

ORDERING INFORMATION

Catalog number 80-92

The TMI Group of Companies



www.testingmachines.com

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Lab Master® Probe Tack Tester

Specifications

| | | | |
|--|-------------------|-----------------------------|--|
| Force (tension and compression) | | | |
| Maximum | ±2.3 kg | ±5.0 lb | Other force ranges available |
| Resolution | 0.1 g | 0.0002 lb. | |
| Accuracy | ±0.5% of reading | ±0.5% of reading | Exceeds the requirements of ISO 7500-1 Class 0.5 |
| Overload rating | ±0.5 g 150% | ±0.5 g 150% | Tension or compression |
| Travel and Position | | | |
| Travel (maximum) | 160 mm | 6.25 inches | Varies, depending on attachment |
| Position Resolution | 0.1 µm | 0.00004 inches | |
| Position Repeatability | 0.2 µm | 0.00008 inches | |
| Position Accuracy | ±1.0 µm | ±0.0004 inches | |
| Position Accuracy (cumulative) | ±1.0 µm/60mm | ±0.000017 inches/2.4 inches | |
| Speed | | | |
| Range | 0.01 to 13 mm/sec | 0.01 to 0.5 inches/sec | |
| Accuracy (steady state) | better than 0.05% | better than 0.05% | |
| Throat depth | 82 mm | 3.3 inches | |
| Number of repeat cycles | as required | as required | |
| Data Acquisition rate | 2 kHz | 2 kHz | |
| Display | | | |
| TFT flat panel touch screen | 300 mm | 12 inch | |
| Physical Dimensions | | | |
| Height | 880 mm | 34.75 inches | |
| Width | 490 mm | 19.25 inches | |
| Depth | 535 mm | 21.00 inches | |
| Working surface height | 290 mm | 11.5 inches | |
| Weight | 50 kg | 110 pounds | |
| Electrical Characteristics | | | |
| Supply voltage (universal) | 100-240 VAC | 100-240 VAC | |
| Current (max.) | 10 Amperes | 10 Amperes | |
| Frequency | 50-60 Hz | 50-60 Hz | |
| Environmental Range | | | |
| Temperature (operating) | 5°C to 35°C | 40°F to 95°F | |
| Temperature (storage) | -20°C to 55°C | -4°F to 130°F | |
| Humidity (operating and storage) | 10% to 85% | 10% to 85% | Non-condensing |

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