

Motion Pro Testers

Test Method Reference: ASTM F1578 & F1597

OVERVIEW

This line of testers is designed to provide a wide range of programmable motions to be used for testing items that come in contact by being repeatedly pressed or on contact with the human finger. Ideal for items including membrane switches, silicone keypads, computer keys, buttons, and much more. This tester can be used for general mechanical and cosmetic button wear as well. Using a silicone finger test probe, which conforms to ASTM 1578 and ASTM 1597, the effect of the pressing closely simulates a repeating pressing of a human finger. Optional Finger Probe ASTM1597 and ASTM is available in a variety of mounting thread options.

The electric magnetic coil actuators design is very durable with precise and repeatable motion. The touch screen panel provides for easy user friendly input of the variables and settings.

A preset number of cycles can be set for automatic stopping of the test. All test motion parameters can be easily set including force, angle of motion, speed, acceleration, dwell time after motion, as well as other settings.

FEATURES

- Excellent Vertical Force Control
- Easy touch screen settings input
- High Life Cycle Actuator
- Easy set-up and operation
- Automatic shut-off
- Fast cycling

SPECIFICATIONS

MPT-1

- **Load Capacity:** 3500 grams @ 40% duty Cycle
1400 grams @ 100% duty cycle
- **Angle of Load:** Variable
- **Clear Height of Finger:** Up to 4 inches without modification
- **Cycles Per Second:** Several per second depending on motion selected
- **Velocity:** Programmable
- **Acceleration:** Programmable
- **Delay at End of Stroke:** Programmable
- **Actuator Movement (Vertical):** Approx. 1 inch
- **User Interface:** Touch Panel
- **Actuator Type:** Moving Coil Actuator (long life)
- **Clear Height of Finger:** 3.5 inches without modification
- **Tare Setting:** To compensate end of arm probe weight

MPT-2

- **Load Capacity:** 3500 grams @ 40% duty Cycle
1400 grams @ 100% duty cycle
- **Load Capacity:** 1300 grams @ 40% duty cycle
(Horizontal) 1000 grams @ 100% duty cycle
- **Angle of Load:** Variable
(Manually Adjusted)
- **Clear Height of Finger:** 3.5 inches without modification
- **Cycles Per Second:** Several per second depending on motion selected
- **Velocity:** Programmable
- **Acceleration:** Programmable
- **Delay at end of stroke:** Programmable
- **Actuator Movement (Vertical):** Approx. 1 inch
- **User Interface:** Touch Panel
- **Actuator Type:** Moving Coil Actuator
- **Actuator Movement (Vertical):** approx. 1 inch
- **Actuator Movement (Horizontal):** 5.9 inch
- **Tare Setting:** To compensate end of arm probe weight

ORDER INFORMATION

- **MPT1-450** Single axis 450 gram capacity
- **MPT1-3500** Single axis 3500 gram capacity
- **MPT2-450** Two axis 450 gram capacity (vertical)
- **MPT2-3500** Two axis 3500 gram capacity (vertical)
- **MPT3-450** Three axis 450 gram capacity (vertical) **available soon**
- **MPT3-3500** Three axis 3500 gram capacity (vertical) **available soon**

ACCESSORIES & CONSUMABLES

- **FP1-0832** Finger Probe (ASTM 1578/1597 Fig.1) 8-32 Male Thread



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MPT-1 Single Axis



MPT-2 Two Axis



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