

Tablet Hardness Tester – TH 1050M

Single Station



5 PARAMETER



WEIGHT



THICKNESS



LENGTH



HARDNESS



WIDTH

FEATURES

- Advance Micro-controller based user-friendly state-of-the-art product design with alphanumeric splash waterproof polyester soft keys for keyboard. User interactive software in dialogue mode for ease of operation with protection against invalid entries.
- Single Station Automatic measurement of tablet parameters - Thickness, Width, Diameter/Length, Hardness and Weight
- Non-Volatile memory storage of 99 methods with parameters with Alphanumeric entries of Sample Name and Identification Number for authentication.
- Automatic run can be performed continuously up to 1-99 tablets. RUN can be re-started on power failure or on System Reset with last run parameters
- Linear Displacement 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6 mm/sec with fast advance & return movement of breaking arm saves runtime.
- Daily Auto Incremented Run Number and Factory entered CUSTOMER NAME with Instrument Serial Number on report makes system foolproof and GLP compliant.
- Two Tier - a) ADMIN, and b) USER password protection for method editing and Validation. 25 Users can be set with Name and password.
- Built-in Real Time Clock (RTC) for date and time display and on printout.
- Process Stage and Compression Press no. entry, NMT, NLT and Percentage Limit for detected values of Width, Thickness, Diameter/Length & Hardness with Star mark for out of limit values.
- Validation/Calibration protocol with verification for Hardness - 3 point Load Cell calibration with Standard weights & Diameter/Length/Thickness/Width Calibration with Standard gauges.
- Quick RUN for Independent Thickness, Diameter/Length, Hardness or All parameter measurement in sequence up to 25 sample tablets with GLP information.
- Error indication on display with Audible alarm helps user to trace the problem.
- Printer Compatibility for Deskjet, Inkjet & Dot-matrix printer.
- PC Based Data downloading facility using EDC 21 software over LAN (optional)

REPORTS:

- Selectable Report Format, complying with GLP requirements:
 - a) Report giving Run No., Set parameters & Actual parameters during the test process.
 - b) Report of program parameters for 99 methods, with printout of empty program numbers.
 - c) Validation report for Hardness and Length / Diameter / Thickness / Width.
- Reports can be obtained even after resetting / power off/ power failure conditions.

TYPICAL SPECIFICATIONS

- **Control:** Micro-controller based (Advanced version of microprocessor)
- **Keyboard:** Alphanumeric splash waterproof polyester soft keys.
- **Display:** 40 x 2 line back lighted liquid crystal display (LCD)

- **Test Parameter: No. of Tablets = 1 - 99.**

1. Thickness:

- Measuring Sensor - Linear Transducer
- Measuring Range - 0.1mm to 15.0mm.
- Measuring Unit - mm or inch.
- Measuring Accuracy - Better than ± 0.06 mm.

2. Width

- Measuring Sensor - Stepper controlled Load Touch sensed
- Measuring Range - 1.0mm to 15.0mm
- Measuring Unit - mm or inch
- Measuring Accuracy - Better than ± 0.06 mm.

3. Diameter/Length:

- Measuring Sensor - Stepper controlled Load Touch sensed
- Measuring Range - Diameter 0.1mm to 25.0mm
Length 0.1mm to 40.0mm (optionally up to 65mm i.e. 25.01 mm to 65.00 mm option available suitable for Bolus Tablets)
- Measuring Unit - mm or inch.
- Measuring Accuracy - Better than ± 0.06 mm.

4. Hardness: Speed Control by Stepper motor

- Linear Displacement Range 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6 mm/sec with fast advance and return of breaking arm.
- Measuring Sensor - Load Cell - Strain gauge
 - Measuring Range - 2N to 500 N. (600N - Optional)
 - Measuring Unit - N (Newton's) / Kp (Kilo Ponds) / Kgf Sc (Strong Cobb) / Lbs / Pound.
 - Measuring Accuracy - ± 1 N.

5. Weight:

- Manual Entry by User (for reporting purpose)
- Automatic Balance Interface - Sartorius / Mettler when Automatic Wt. Transfer option is selected.
- **Method Storage:** 99 programs with parameters.
- **Data Storage:** Available with Non-Volatile memory.
- **Report Format:**
 - a) GLP & Pharmacopoeia compliant report with Statistics (Avg, Min, Max and RSD)
 - b) Program parameter Report.
 - c) Validation Reports
- **Output:**
 - a) Centronics parallel port for Dot matrix / Desk jet Printer.
 - b) RS232 C ports for
 - i) Balance connectivity (Sartorius/Mettler)
 - ii) PC Connectivity for Data Download.
- **Instrument weight:** 10 kgs.
- **Dimensions:** 314W x 200H x 330D mm.
- **Power:** 110 / 230Vac, $\pm 10\%$, 60 / 50 Hz, 50W. option available.
- **Environmental Operating Conditions:**
 - a) Operation: Indoor.
 - b) Temperature: Ambient to 45°C.
 - c) Humidity: 5 to 90% non-condensing.
 - d) Altitude: Upto 2000m.

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