

## Tablet Hardness Tester – TH 1050M

### Single Station



#### 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, Diameter/Length & Hardness
- 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 0.8mm/sec with fast advance and 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 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 and Diameter/Length 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.
- Ethernet Connectivity by RE01 Module and EDC80 Data capture Software (Optional).

#### Reports:

- Selectable Report Format, complying with GLP requirements:
  - a) Report giving Run No., Set parameters and Actual parameters during the test process.
  - b) Report of program parameters for 99 methods, with printout of empty program numbers.
  - c) Validation report for Thickness, Diameter/Length, Tablet Hardness.
- 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 – 0.2mm to 15.0mm.
    - Measuring Unit – mm or inch.
    - Measuring Accuracy –  $\pm 0.06$ mm.
  2. **Diameter/Length:**
    - Measuring Sensor – Stepper controlled Load Touch sensed
    - Measuring Range – 0.1mm to 40.0mm. (65mm Option available suitable for Bolus Tablets).
    - Measuring Unit – mm or inch.
    - Measuring Accuracy –  $\pm 0.06$ mm.
  3. **Hardness :- Speed Control by Stepper motor**

Linear Displacement 0.8mm/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) / Pound.
    - Measuring Accuracy –  $\pm 1$ N.
  4. **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:** 14 kgs.
- **Dimensions:** 314W x 200H x 330D mm.
- **Power:** 230Vac,  $\pm 10\%$ , 50 Hz, 65 Watts. /110V(60Hz) option available.
- **Environmental Operating Conditions:**
  - a) Operation: Indoor.
  - b) Temperature: 15 to 35°C.
  - c) Humidity: 5 to 90% non-condensing.

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