

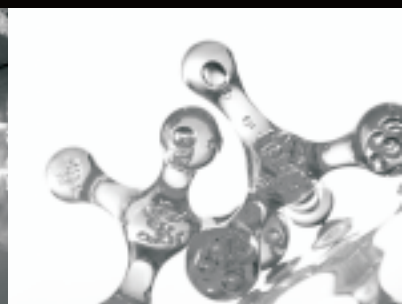
Tablet Hardness Tester

with Diameter/Length & Thickness Measurement

Model: TH 1050S



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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.
- 12 Position Carousel for Automatic measurement of tablet parameters - Thickness, Length/Diameter & Hardness. The built in Sweeping blades cleans the tablet path for removal of broken pieces, debris & dust.
- 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 restarted on power failure.
- 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 system foolproof and GLP compliant.
- Two Tier - a) ADMIN, and b) USER password protection for method editing and Validation. 10 Users can set with Name and password.
- Built-in Real Time Clock [RTC] for date and time display and on printout.
- Result resolution - 0.1N, 0.1 mm or 0.01 inch, as per unit selected.
- Process Stage and Compression Press no. entry and Percentage Limit for detected values of Hardness, Length & Thickness with Star mark for out of limit values.
- Validation/Calibration protocol with verification for Hardness - 3 point Load Cell calibration with Standard weights, Length/Diameter and 3 point Thickness Calibration with Standard thickness gauges.
- Quick RUN for Thickness, Length & Hardness or all parameter measurement in sequence up to 25 sample tablets with GLP information.
- Error indication on display 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).
- Quick RUN for a) Thickness b) Length & Hardness c) Hardness d) All

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 (Optional), Diameter/Length, Hardness.
- Reports can be obtained even after resetting / power off / power failure conditions.

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 – ± 0.06 mm.

2. Diameter/Length

- Measuring Sensor – Stepper controlled Load Touch sensed
- Measuring Range – 2.0mm to 32.0mm.
- Measuring Unit – mm or inch.
- Measuring Accuracy – ± 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 – ± 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:** 18kgs.

- **Dimensions:** 360W x 320H x 350D mm.

- **Power:** 230Vac, + 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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