

H1200

Introducing Labindia's latest innovation, the Tablet Hardness Tester TH1200. Designed for efficiency and accuracy, this advanced tester is engineered to measure up to 5 parameters with precision. Compact and compliant with all major pharmacopeias, it sets a new standard in tablet testing.

TH120

With an integrated load cell, it automatically weighs samples, ensuring consistent results. The intuitive touch display allows for easy storage of up to 100 products/methods, streamlining testing procedures and enhancing productivity.

### **FEATURES**



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**7" TOUCH SCREEN** 7 inch high quality Capacitive Color Touch Screen Display



4 Level Password is incorporated -Admin, Lab Manager, Supervisor, and User



### IN-BUILT COMPUTER

100 Test Methods with date and time



### HARDWARE VALIDATION

Validation of hardware with real time status information

# **KEY FEATURES:**

- Advance Micro-controller based user-friendly state-of-theart product design with **7" capacitive touch screen colour display**. User interactive software in dialogue mode for ease of operation with protection against invalid entries.
- 12 Position Carousal for Automatic measurement of tablet parameters - Thickness, Length/Diameter, Weight, Width & Hardness. The built in Sweeping blades cleans the tablet path for removal of broken pieces, debris & dust.
- Non-Volatile memory storage of 100 methods with parameters with Alphanumeric entries of Sample Name and Identification Number for authentication.
- Automatic run can be performed continuously up to 1-100 tablets. Run can be restarted on power failure.
- Linear Displacement 0.4, 0.8, 1.2, 1.6, 2.0, 2.4, 2.8, 3.2 mm/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. 50 Users can be set with Name and password.
- Built-in Real Time Clock (RTC) for date and time display and on printout.
- Result resolution 0.1/1N, 0.01mm, 0.01cm, 0.001inch 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.

- Calibration & verification protocol for Hardness:
   3 point calibration & verification with standard weights.
- Calibration & verification protocol for Length:

   single point Calibration & 3 point verification with standard length gauges.
- Calibration & verification protocol for Thickness:
   3 point calibration & verification 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.
- PC Based Data downloading facility using EDC 21 software
- Customizable Report File
- Preview Result data before printing
- Auto Resume facility to continue the run in case power failure
- Data backup to SD card & restore facility available
- User can easily adjust brightness of screen



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## **REPORTS:**

- Selectable Report Format, complying with GLP requirements:
  - Report giving Run No., Set parameters and Actual parameters during the test process.
  - Report of program parameters for 100 methods.
  - Calibration report for Thickness, Diameter / Length, Hardness and Width.
- Reports can be obtained even after resetting / power off/ power failure conditions.



# **TYPICAL SPECIFICATIONS**

### PARAMETERS

- Control: Micro-controller based (Advanced microprocessor)
- Display: 7" inch capacitive touch screen color display
- Test Parameters: No of Tablets = 1 100

#### 1.Thickness:

<ul> <li>Measuring Sensor</li> </ul>	Linear Transducer
<ul> <li>Measuring Range</li> </ul>	0.1mm to 15.0mm.
<ul> <li>Measuring Unit</li> </ul>	mm or inch.
<ul> <li>Measuring Accuracy</li> </ul>	better than ± 0.05mm

#### 2.Width (in separate mode):

Measuring Sensor
Measuring Range
Measuring Unit
Measuring Accuracy
Stepper controlled Load Touch sensed
0.1mm to 15.0mm
mm or inch
better than ± 0.05mm

#### 3.Diameter/Length:

<ul> <li>Measuring Sensor</li> </ul>	Stepper controlled Load Touch sensed
<ul> <li>Measuring Range</li> </ul>	Diameter 0.5mm to 25.0mm
	Length 0.5mm to 32.0mm
<ul> <li>Measuring Unit</li> </ul>	mm or inch.
<ul> <li>Measuring Accuracy</li> </ul>	better than ± 0.05mm.

#### 4.Hardness: Speed Control by Stepper motor

Linear Displacement

0.4,0.8,1.2,1.6, 2.0, 2.4, 2.8, 3.2 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 ± 1N

5.Weight: Manual Entry by User (for reporting purpose) Automatic Balance Interface: Sartorius / Mettler when Automatic Wt. Transfer optionis selected. Number of Method: 100 method with Non-Volatile memory.

**Report Storage:** Practically unlimited Test Reports with Date and time stamp

#### **Report Format:**

a) GLP & Pharmacopoeia compliant report with Statistics (Avg, Min, Max and RSD)
b) Program parameter Report.
c) Calibration Reports

#### Output:

a) Printer connectivity : Centronics parallel port for Dot matrix / Desk jet Printer.
b) Serial Interface : RS232 C-1 for Balance connectivity (Sartorius/Mettler) RS232 C-2 for PC Connectivity for Data Download.

#### Instrument Weight: 20 kgs.

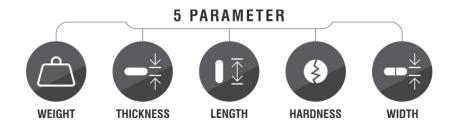
Dimensions: 345W x 270H x 425D mm.

Power: 110 / 230Vac, ± 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. Altitude: upto 2000







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