

## Digital Melting Point Apparatus

### Features:-

- Extremely Useful for Pharmaceutical Industry.
- 4 Digit 7 - Segment LED Display.
- Silicon Oil-Bath and In-built Magnetic Stirrer for Uniform Heating.
- Digital Readout for Temperature 0.1 °C (Model - 999) and 1 °C (Model 777).
- Highly Accurate & Easy to Operate.
- Glare-free Illuminator and Large Magnifier for Stain free Observation.



Melting Point Apparatus with 4 digits, 7 - Segment LED display is designed for accurate measurement of melting points and for checking the melting range of the solid samples. The apparatus consists of a silicon bath of about 200 ml capacity, covered with ptfе cover with 3 holes fitted, with a special type of oil immersion heater having three holes for holding the capillaries, one for boiling point tube and one for the thermometer. The apparatus consists of in-built magnetic stirrer, an electronic controller with indicator for precisely adjusting the rate of heating of silicon oil-bath, an ON/OFF switch, a pilot lamp, with magnifier, a glare free background illuminator, a High/Low range temperature selector switch and digital temperature indicator with PT100 RTD sensor.

The 'Start' switch is used to start the measurement of melting point. User can stop the measurement using the 'Stop' switch after the instrument reaches the melting point of the sample. The display will always show the last temperature where 'Stop' switch pressed in the last measurement. Clear switch is used to clear the display to zero.

### Specifications:-

Display	4 Digit, 7 - Segment LED Display (Model - 999) 3 Digit, 7 - Segment LED Display (Model - 777)
Temperature	0 - 300 °C
Resolution	0.1 °C (Model - 999) 1 °C (Model - 777)
Capillary Glass Tubes	12 mm long, 0.8 - 1.1 mm internal diameter
Boiling Point Glass Tubes	75 mm long glass tube
Sample Amount	Fine powder properly dried at a temperature considerably below its melting point 4 - 6 mm high
Oil-Bath	Silicon oil-bath beaker 200 ml capacity with ptfе cover fitted with oil immersion heater. It has three holes for holding the capillaries, boiling point tube and thermometer
Stirrer Speed	Controllable with front knob
Power	230 V $\pm$ 10%, 50 Hz. AC
Dimensions	315 x 290 x 230 mm (L x B x H) (Approx.)
Weight	12 Kg (Approx.)
Accessories	Box of Capillaries, Boiling Point Tubes - 2 Set, Thermometer with Range 0 - 360 °C, Magnetic Capsule, Bottle of Silicon Oil, Glass Cylindrical Beaker with ptfе cover for beaker fitted with immersion heater, Operation Manual, Dust Cover

**NOTE :** Technical specifications & Design are subject to change without prior notice, due to continuous up gradation.

## Digital Tensile Testing Machine (Model:Stm-d)

- Model STM-D is a digital model and comes with the electronic panel only.
- It does not have the software & hence cannot be connected to PC.
- Load & Over travel safety.
- On line display of load and Elongation.
- Tare Load & Reset Elongation facilities available.
- Standard load resolution is with 20,000 counts. Finer resolution (optional) with 40,000 counts can also be offered at extra cost. Standard displacement resolution is 0.1 mm.
- Various Models- Maximum capacity from 200 N to 50 kN.
- Loading accuracy well within  $\pm 1\%$  conforms to IS : 1828 / BS : 1610 from 2% to 100% of capacity of load cell.



## Computerized-Tensile Testing Machines (Model:Stm-dc )

- Fully automatic, on screen calculations based on the delivered data.
- Automatic Data capture, storage & graphic display.
- Recording, storage & retrieval of results & details. Windows based, Users friendly, Accurate, Menu driven software.
- Load measurement by load cell.
- Over Load & Over travel safety.
- On line display of Load, Elongation & Graph.
- Tare load & reset elongation facilities available.
- Selectable units like N, kN, kgf, lbf, inch, mm, etc.
- It is possible to use a number of load cells, say two or three, to cover much wider range of load, to suit the application. Cost of one load cell is included in the price, but additional load cell will be at extra cost.
- Standard load resolution is with 10,000 counts. Finer resolution (Optional) with 20,000 counts can also be offered at extra cost.
- Standard displacement resolution is 0.1 mm.
- Various Models- Capacities from 200 N to 50 kN are available
- Loading accuracy well within  $\pm 1\%$ , conform to IS: 1828 / BS: 1610 from 2% to 100% of capacity of load cell.



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