



MELTING POINT APPARATUS MICROCONTROLLER BASED



MODEL: VMP-AD

This apparatus is designed to accurately determine the melting points of solid samples or boiling point of liquid samples. It is accessorized with a silicon oil bath and heater. It incorporates a microprocessor based circuitry and keys to set desired program for heating the bath. On pressing 'START' button, the instrument automatically executes total program. Initially temperature of the bath rises fast and is automatically controlled in suitable steps. As the melting point is approached the final rate of heating is adjusted at 1 degree per minute. The sample is filled in capillaries and is suspended in the Silicon Bath through its Teflon cover. The temperature of bath is uniformly maintained by a magnetic stirrer. The physical changes and melting of sample in the capillaries can be clearly observed on the background of 'Glare Free' illuminator. This model is specially designed to determine the 'Range of Melting Point' accurately if required.



FEATURES

- * Melting Point of three samples can be determined at the same time.
- * Boiling Point can be determined of one sample.
- * Simple instructions and messages displayed on 240 x 128 graphic display.
- * Graphical representation with Time V/S. Temperature.
- * User friendly key board.
- * Inbuilt interface of PS-2 computer key board for quick & easy data entry.
- * Facility to select Melting Point or Boiling Point test.

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- * Memory provision for storage of 99 product names with their expected Melting Point.
- * Memory provision for storage of 25 product names with their expected Boiling Point.
- * Provision for unknown/new product evaluation.
- * Validation program for standard samples.
- * 8 operator names can be stored with individual password.
- * Different levels of password protection.
- * Memory to store around 150 test records.
- * On line and off line printing facility with date and product selection.
- * Selection of Stirrer speed through keyboard.
- * Testing temperature range up-to 300°C.
- * Temperature gradient 0.5°C, 1.0°C.
- * Facility to customize test reports with user's company name and instrument number.
- * Equipped with camera and color monitor to observe Melting Point with ease.

SPECIFICATIONS

Dimensions	: 38cms x 38cms x 38cms
Weight	: 12 kgs.
Power Supply	: AC Mains, 230 volts , 500watt.
Air Cooling	: 100 mm Sweep High Speed Blower-Fan
Oil Immersion Heater	: 230 volts 220 watt(approx)
Magnetic Drive	: 100 – 1000 RPM Stirring Speed.
Colour Monitor with 10 Times Magnification	

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