

# MICROCONTROLLER BASED MELTING POINT APPARATUS VMP-AD

DESIGN TO MEASURE  
MELTING/BOILING POINT OF SAMPLE



# MICROCONTROLLER BASED MELTING POINT APPARATUS

## VMP-AD

This apparatus is designed to determine the melting point of solids or boiling point of liquids, with high accuracy.

It is supplied with a Silicon Oil bath with heater for heating the bath. It incorporates a microprocessor based circuitry and keys to set desired program for heating the bath. On pressing 'START' button, the instrument automatically executes the total program. The temperature of bath rises fast in the beginning and is automatically controlled in suitable steps and adjusts the final rate of heating at 1° per minute, towards the melting point. The sample is filled in capillaries and is suspended in the Silicon Bath through its Teflon cover. The temperature of bath is maintained uniform 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. A special feature of this model is that the 'Range of Melting' of samples can also be determined 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 on 240 x 128 graphic display.
- Graphical representation of Time v/s Temperature.
- User friendly key board
- PS-2 Computer key board for quick & easy data entry
- Facility to select Melting Point or Boiling Point test type
- 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 100 test records.
- On line and off line printing facility with date and product selection.
- Selection of Stirrer speed through key board.
- 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 colour monitor to observe Melting Point With Ease.