



Microprocessor Melting Point Apparatus



The Instrument basically consists of a Miniature Furnace with Automatic Ramp Rate of Heating, Microprocessor Controlled, when "Start" key is pressed, heating starts. There is Auto detection of Opto-coupled Infra-Red transmission system, when sample melts, photodiode detects the signal and Melting Temperature put on hold / latched on display automatically. The Furnace becomes off and the cooling fan ON automatically. The instrument gives audio & visual indications, on reaching the temperature at which the sample melts.

Opto-coupled I.R. Transmission based. Only Crystalline sample (Sample required to be transparent at the time of melting, not Suitable for Dark Colored Samples).

The Melting Temp. of the sample remain displayed on the panel till the "RESET" switch is operated.

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OPERATION : Fully Automatic "Sample Fill and Forget" : All the selection of programming is fully protected from power failure including "HOLD" action of melting temperature. Once the start action is initiated, it will reach to find out the melting point of sample, even multiple time power failure.

NOTE:- Suitable for any dark/colored sample useful for Pharmaceutical Industries, Chemical, Plastic Molding Industries Etc.

Technical Specifications:-

Temp. Range	Ambient to 350°C
Display	3 Digits LED
Resolution	1°C
Temp. Sensor	Grade "A" PT-100, Platinum Sensor
Sample Capacity	One Sample, Capillary Dimension 1.4 mm
Heating Area	Miniature Furnace Module
Application	Suitable for Melting Point only
Temp. Control / Ramp Rates	Microprocessor controlled closed loop PID, Auto Ramp Rate Heating 2°C to 10°C/minute (through selection, Low- Auto-High)
Operation	Auto determination of Melting Point
Power Supply	230 V ± 10% AC, 50 Hz.
Dimension:	270X330X145 mm (LXBXH)
Weight	8 KG

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