

Model: MP 300

Microprocessor Melting Point Apparatus



CE



High quality microprocessor instrument for precise measurement of melting points of solid Materials for max. melting point of 300°C.

Features

In accordance with the definition of physical chemistry, the melting point of a substance means the temperature at which the substance changes from solid state to liquid state. In the field of organic chemistry, the measurement of melting point is a basic means of recognizing the nature of a substance, and is also one of the important places in the chemical industry and medicine researches. Also, the melting-point meter is a kind of necessary instrument in the production of medicines, perfumes, dyestuffs and other organic crystalline substances.

Specifications

Microcomputer melting point meter uses the technology of photoelectric detection and temperature display by liquid crystal. Type MP 300 could measure three sample at the same time. It has the functions of automatic displaying of initial and final melting points, automatic recording of the melting curves and calculating average value. The temperature system uses the linearly corrected platinum resistor as the detecting element, and additionally, it uses the integrated circuits to realize the speedy setting of the eight-step linearly heating rate for being selected. Since the initial and final melting-point readings can be stored up automatically, there is no need for this function to be monitored manually.

The Type MP 300 melting point meter uses the capillary stipulated by the pharmacopoeia as the sample tube.

Measuring range :	room temperature (Ambient) ~300°C	
Accuracy of measuring the melting-point:	< 200°C	±0.5°C
	200°C~300°C	±0.8°C
Minimum reading of the digital temperature display:	0.1°C	
Rate of the linear heating:	0.2 to 5°C/min	
Deviation of linear heating rate:	< 10% (of setting value)	
Repeatability:	0.3°C(rate is 1.0°C/min)	
	0.2°C(rate is 0.2°C/min)	
Size of the capillary:	Ø 1.4 mm (O.D.)	
	Ø 1.0 mm (I.D.)	
Loading height of the sample:	3mm	
RS232 interface:	band rate 9600,1 bit stop, 8bits data	
Mains:	220V ±22V , 100W, 50Hz	
Dimensions:	398×278×210 mm	
Weight	12.5 kg	



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