

1. Melting point Apparatus

1.1 Digipol Series - Automatic melting point Apparatus



Brief Introduction

Melting point meter is an instrument for measuring the melting point of a substance. The melting point of a substance refers to the temperature at which the substance changes from solid to liquid. In the field of organic chemistry, the determination of the melting point is the basic means to identify the nature of a substance, and also one of the important methods for the determination of purity.

Shanghai jiahang automatic melting point instrument series perfectly combine high-precision temperature control technology and high-definition video camera technology, not only to provide users with accurate, stable and reliable test results, but also to bring users efficient and convenient test experience. High-definition video can easily and clearly see the whole process of sample melting, automatic detection real-time Tupu display, convenient for users to accurately measure the sample melting point and melt distance.

Fields of use

1. Melting point meter plays an important role in chemical industry and medical research. It is a necessary instrument for the production of drugs, spices, dyes and other organic crystal substances. Corresponding enterprises (pharmaceutical related enterprises, chemical enterprises)
2. Universities and Research Institutes (chemical and pharmaceutical related schools and research institutes)
3. Government supervision departments (Entry-Exit Inspection and Quarantine Food and Drug Administration, Grain Administration, etc.)

The main features

1. HD recording function, easy to observe and look back.
2. Large temperature range from room temperature to 420°C.
3. The heating rate is adjustable from 0.1°C/Min to 20°C/Min without pole.
4. Enlarge HD color screen window.
5. Four samples can be determined simultaneously.
6. Printer can be connected to realize real-time data printing and historical data printing.
7. Comply with Pharmacopoeia test methods, including European Pharmacopoeia, United States Pharmacopoeia and Chinese Pharmacopoeia.
8. Compliance with 21CFR Part 1, audit trail, pharmacopoeia and electronic signature.

Technical parameters

Model	DigiPol-M30	DigiPol-M50	DigiPol-M70	DigiPol-M80	DigiPol-M90	DigiPol-M130
Temperature range	RT -360℃	RT -420℃	RT -360℃	RT -400℃	RT -420℃	RT -420℃
Detection method	Semi-automatic	Semi-automatic	Automatic with manual	Automatic with manual	Automatic with manual	Automatic with manual
Processing capacity	4 pcs per batch					
Test mode	Melting point	Melting point	Melting point	Melting point	Melting point	Melting / boiling / cloud / slip point
Temperature resolution	0.01℃					
Heating rate	0.1℃--20℃ (200 gears, steplessly adjustable)					
Temperature control mode	PID precise temperature control, fully enclosed design of the furnace body					
Accuracy	±0.3℃ (<250℃) ±0.5℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)	±0.3℃ (<250℃) ±0.5℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)
Repeatability	Melting point repeatability was ±0.1℃at 0.1℃/Min					
Magnification	9 times					
Display method	10.4 inch FTF color touch color screen					
Data storage	32G	64G	32G	64G	128G	128G
Graph save	200 units	400 units	200 units	400 units	600 units	600 units
Map	-	-	Any zoom	Any zoom	Any zoom	Any zoom
User management	YES / Level 4 authority					
Audit trails	YES					
21 CFR part 11	YES					
Custom method libraries	YES					
Export file verification MD5	YES					
Printing	WIFI , serial port					
Export format	PDF & EXCEL					
Data interface	USB ,RS232, SD,Wi-Fi、 RJ45、 U disk					
Small capillary size	OD: Φ1.3mm ID:Φ1.1mm					
Large capillary size	-	-	-	-	-	OD: Φ4.2mm ID:Φ3.8mm
Packing Size	430*320*370mm					
Power supply	110-230V,50/60Hz,120W					
Gross Weight	6.5kg					