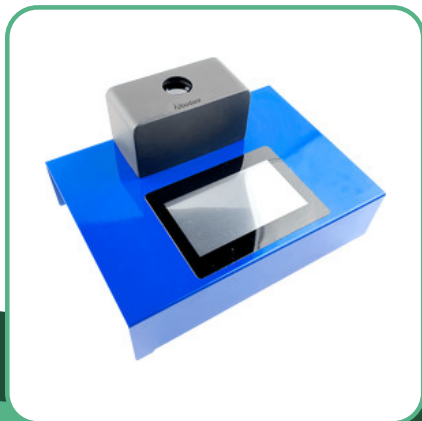
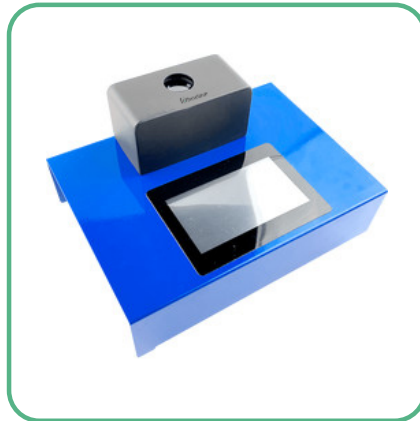


# Touch Screen Melting Point Apparatus

Touch Screen Melting Point Apparatus



Melting Point Apparatus LDMP-A12 is an automated melting point apparatus to measure melting point of powdered materials with melting point temperature range up to 320°C. It features colourful touch screen display with a test mode to clearly see three samples melting situation and get three samples individual and average value. The high preheating rate offers reliable measurements in any temperature range.

## Features:

- Colourful touch screen display
- Increasing temperature speed can easily set from 0.1 to 10°C/ min
- Microprocessor PID temperature controlled system
- High resolution microscope lenses can observe sample clearly
- Display Test Mode: Can clearly see 3 samples melting situation and get 3 samples individual and average value
- Easy setting to pre-set temperature, heating rate, stop temperature
- Built-in cooling fan can easily cool down temperature and test next samples
- Fully closed design of furnace body to avoid any fire hazard for the user
- Output interface is RS 232
- Equipped with sample tube up to external diameter of 1.6 mm and internal diameter of 1.2 mm

## Applications:

Melting Point Apparatus is widely using in chemical industry and medicine, it is necessary in instrument for the production of food, drugs, spices, dyes and other organic crystal substances.

## Specifications:

| Model no.     | LD-LDMP-A12                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------------|
| Output        | RS 232 interface                                                                                             |
| Weight        | 1.2 kg                                                                                                       |
| Display       | FTF high resolution Colourful touch screen                                                                   |
| Accuracy      | $\pm 0.4^{\circ}\text{C}$ ( $< 250^{\circ}\text{C}$ ), $\pm 0.7^{\circ}\text{C}$ ( $> 250^{\circ}\text{C}$ ) |
| Dimension     | 250 mm × 250 mm × 150 mm                                                                                     |
| Resolution    | 0.1°C                                                                                                        |
| Sample Cell   | Capillary tube                                                                                               |
| Sample Tube   | External diameter: 1.6 mm internal diameter: 1.2 mm                                                          |
| Power Supply  | 100 V to 240 V, 50 Hz to 60 Hz                                                                               |
| Repeatability | When 0.1°C/Min, repeatability $\pm 0.3^{\circ}\text{C}$                                                      |

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| <b>Cooling Function</b>           | NO                                                           |
| <b>Power consumption</b>          | 100 W                                                        |
| <b>Temperature Range</b>          | RT to 320°C                                                  |
| <b>Temperature Control Method</b> | PID control temperature, Fully closed design of furnace body |
| <b>Temperature Increase Speed</b> | 0.1°C to 10°C (100 temperature point infinitely adjustable)  |

Melting Point Apparatus LDMP-A13 is an automated melting point apparatus to measure melting point of powdered materials with melting point temperature range up to 400°C. It features colourful touch screen display with a test mode to clearly see three samples melting situation and get three samples individual and average value. The high preheating rate and the integrated fan cooling allow fast and reliable measurements in any temperature range.

## Features:

- Colourful touch screen display
- Increasing temperature speed can easily set from 0.1 to 10°C/ min
- Microprocessor PID temperature controlled system
- High resolution microscope lenses can observe sample clearly
- Display Test Mode: Can clearly see 3 samples melting situation and get 3 samples individual and average value
- Easy setting to pre-set temperature, heating rate, stop temperature
- Built-in cooling fan can easily cool down temperature and test next samples
- Fully closed design of furnace body to avoid any fire hazard for the user
- Output interface is RS 232
- Equipped with sample tube up to external diameter of 1.6 mm and internal diameter of 1.2 mm

## Applications:

Melting Point Apparatus is widely using in chemical industry and medicine, it is necessary in instrument for the production of food, drugs, spices, dyes and other organic crystal substances.

## Specifications:

| Model no.     | LD-LDMP-A13                                         |
|---------------|-----------------------------------------------------|
| Output        | RS 232 interface                                    |
| Weight        | 1.2 kg                                              |
| Display       | FTF high resolution Colourful touch screen          |
| Accuracy      | ±0.4°C (< 250°C), ± 0.7°C (> 250°C)                 |
| Dimension     | 250 mm × 250 mm × 150 mm                            |
| Resolution    | 0.1°C                                               |
| Sample Cell   | Capillary tube                                      |
| Sample Tube   | External diameter: 1.6 mm internal diameter: 1.2 mm |
| Power Supply  | 100 V to 240 V, 50 Hz to 60 Hz                      |
| Repeatability | When 0.1°C/Min, repeatability ± 0.3°C               |

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| <b>Cooling Function</b>           | Built-in Cooling Fan                                         |
| <b>Power consumption</b>          | 100 W                                                        |
| <b>Temperature Range</b>          | RT to 400°C                                                  |
| <b>Temperature Control Method</b> | PID control temperature, Fully closed design of furnace body |
| <b>Temperature Increase Speed</b> | 0.1°C to 10°C (100 temperature point infinitely adjustable)  |

Melting Point Apparatus LDMP-A20 is PID microprocessor temperature control unit with fully automatic detection mode. Combines with high-precision temperature control technology and high definition video camera technology, which not only provides users with accurate, stable and reliable test results, but also brings users efficient and convenient test experience. High definition video can easily and clearly see the whole process of sample melting, automatic detection real-time map display, and convenient use to accurately measurement of samples melting point and melting distance.

## Features:

- Designed with automatic integration to realize the function of one key measurement
- High definition video instead of traditional visual microscope
- It deal with four samples at a time
- The data can be printed directly by printer
- Design with PID precise temperature control and furnace body fully closed
- Automatic recording of melting range, initial melting and final melting
- Automatically upgraded U disk software without returning to the factory
- Automatically judge color samples
- Equipped with USB, network Wi-Fi interface, RS232 and tamper proof function
- Designed with 8 inches high-definition color screen

## Applications:

Melting Point Apparatus is used in Chemical, pharmaceutical, food and drug manufacturing and research industry for quality and testing purpose. It is also used in cosmetics, dye and paint production and testing plants, laboratories.

## Specifications:

| Model no.     | LD-LDMP-A20                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------------------|
| Printer       | Laser printer or thermal / needle type (compatible)                                                                  |
| Accuracy      | $\pm 0.3\text{ }^{\circ}\text{C}$ (< 200 $^{\circ}\text{C}$ ) , $\pm 0.5^{\circ}\text{C}$ (>200 $^{\circ}\text{C}$ ) |
| HD camera     | Observe the melting state of sample                                                                                  |
| Test method   | Yes                                                                                                                  |
| Display mode  | 8 inch high-definition color screen                                                                                  |
| Heating rate  | 0.1 $^{\circ}\text{C}$ / min or 20 $^{\circ}\text{C}$ / min                                                          |
| Power supply  | 220 V, 50 Hz                                                                                                         |
| Magnification | $\geq 10$                                                                                                            |
| Repeatability | Melting point repeatability $\pm 0.1\text{ }^{\circ}\text{C}$ at 0.1 $^{\circ}\text{C}$ / min                        |

|                                 |                                              |
|---------------------------------|----------------------------------------------|
| <b>Storage space</b>            | 16 g hard disk, ≥ 2G memory                  |
| <b>Capillary size</b>           | Outer diameter 1.4 mm, Inner diameter 1.0 mm |
| <b>Data interface</b>           | USB, network Wi-Fi interface, RS232          |
| <b>Detection mode</b>           | Fully automatic (compatible with manual)     |
| <b>Video function</b>           | Take photos                                  |
| <b>Video playback</b>           | With / with time watermark                   |
| <b>Exploration mode</b>         | Yes                                          |
| <b>Judgment ability</b>         | Automatically judge color samples            |
| <b>Power consumption</b>        | 120 W                                        |
| <b>Temperature range</b>        | Room temperature to 350 °C                   |
| <b>Atlas preservation</b>       | 200                                          |
| <b>Experimental scheme</b>      | 50 sets                                      |
| <b>Processing capacity</b>      | 4 / batch                                    |
| <b>Temperature resolution</b>   | 0.1 °C                                       |
| <b>Continuous shooting time</b> | 50 minutes                                   |
| <b>Temperature control mode</b> | PID precise temperature control              |

Melting Point Apparatus LDMP-B10 offers desktop design, Semi- automatic detection method, without cooling function. Equipped with Peltier precise temperature function, In line with international standards such as CE & ISO for determination of the melting point of oils and fats. With addition of either high-definition camera or high definition video and camera technology, to delivers accurate, stable results, and user can clearly see the whole process of sample melting, automatic detection to eliminate the subjective error to determine the melting point.

## Features:

- TFT touch screen display
- Semi- automatic detection method, without cooling function
- Capacity per batch is 2 pcs
- Designed with a key automatic detection function
- Use of double opening capillary size I.D>1.0 mm,O.D.1.4 mm
- In line with international standards such as CE & ISO
- Adopted with Peltier precise temperature function technology

## Applications:

It finds application across finding meting point of oil and fat in food and drug industry, biochemistry, medicines, mining, water management industry.

## Specifications:

| Model no.            | LD-LDMP-B10                |
|----------------------|----------------------------|
| Power                | 110 to 220V 50, 60HZ 120W  |
| Weight               | 5 kg                       |
| Display              | TFT Touch screen           |
| Dimension            | 400 × 280× 330 mm          |
| Interface            | USB RS232 SD card Enternet |
| Repeatability        | 0.1°C/Min , ±0.1°C         |
| Camera & Video       | Camera                     |
| Result storage       | 200                        |
| Video playback       | NA                         |
| Detection method     | Semi-automatic             |
| Operator account     | NA                         |
| SD card capacity     | 8G                         |
| Capacity per batch   | 2 pcs/batch                |
| Temperature accuracy | ±0.3°C                     |

|                                  |                                       |
|----------------------------------|---------------------------------------|
| <b>Temperature gradients</b>     | (0.1 to 10.0)°C/Min                   |
| <b>Opening capillary size</b>    | I.D>1.0 mm, O.D.1.4 mm Double opening |
| <b>Temperature resolution</b>    | 0.1°C                                 |
| <b>Temperature control range</b> | RT to 100°C                           |

Melting Point Apparatus LDMP-B11 offers desktop design, Semi- automatic detection method, with cooling function. Equipped with Peltier precise temperature function, In line with international standards such as CE & ISO for determination of the melting point of oils and fats. With addition of either high-definition camera or high definition video and camera technology, to delivers accurate, stable results, and user can clearly see the whole process of sample melting, automatic detection to eliminate the subjective error to determine the melting point.

## Features:

- TFT touch screen display
- Semi- automatic detection method, with cooling function
- Capacity per batch is 2 pcs
- Designed with a key automatic detection function
- Use of double opening capillary size I.D>1.0 mm,O.D.1.4 mm
- In line with international standards such as CE & ISO
- Adopted with Peltier precise temperature function technology

## Applications:

It finds application across finding meting point of oil and fat in food and drug industry, biochemistry, medicines, mining, water management industry.

## Specifications:

| Model no.            | LD-LDMP-B11                |
|----------------------|----------------------------|
| Power                | 110 to 220V 50, 60HZ 120W  |
| Weight               | 5 kg                       |
| Display              | TFT Touch screen           |
| Dimension            | 400 × 280× 330 mm          |
| Interface            | USB RS232 SD card Enternet |
| Repeatability        | 0.1°C/Min , ±0.1°C         |
| Camera & Video       | Camera & Video             |
| Result storage       | 400                        |
| Video playback       | Yes                        |
| Detection method     | Semi-automatic             |
| Operator account     | 8                          |
| SD card capacity     | 8G                         |
| Capacity per batch   | 2 pcs/batch                |
| Temperature accuracy | ±0.3°C                     |

|                                  |                                       |
|----------------------------------|---------------------------------------|
| <b>Temperature gradients</b>     | (0.1 to 10.0)°C/Min                   |
| <b>Opening capillary size</b>    | I.D>1.0 mm, O.D.1.4 mm Double opening |
| <b>Temperature resolution</b>    | 0.1°C                                 |
| <b>Temperature control range</b> | 6 to 100°C                            |

Melting Point Apparatus LDMP-B12 offers desktop design, Automatic detection method, without cooling function. Equipped with Peltier precise temperature function, In line with international standards such as CE & ISO for determination of the melting point of oils and fats. With addition of either high-definition camera or high definition video and camera technology, to delivers accurate, stable results, and user can clearly see the whole process of sample melting, automatic detection to eliminate the subjective error to determine the melting point.

## Features:

- TFT touch screen display
- Automatic detection method, without cooling function
- Capacity per batch is 2 pcs
- Designed with a key automatic detection function
- Use of double opening capillary size I.D>1.0 mm,O.D.1.4 mm
- In line with international standards such as CE & ISO
- Adopted with Peltier precise temperature function technology

## Applications:

It finds application across finding meting point of oil and fat in food and drug industry, biochemistry, medicines, mining, water management industry.

## Specifications:

| Model no.          | LD-LDMP-B12                                      |
|--------------------|--------------------------------------------------|
| Power              | 110 to 220V 50, 60Hz 120W                        |
| Weight             | 5 kg                                             |
| Display            | TFT Touch screen                                 |
| Dimension          | 400 × 280× 330 mm                                |
| Interface          | USB RS232 SD card Enternet                       |
| Repeatability      | 0.1°C/Min , ±0.1°C                               |
| Camera & Video     | Camera                                           |
| Result storage     | 600                                              |
| Video playback     | No                                               |
| Detection method   | Fully automatic (compatible with Semi-automatic) |
| Operator account   | 10                                               |
| SD card capacity   | 8 G                                              |
| Capacity per batch | 2 pcs/batch                                      |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Temperature accuracy</b>      | ±0.3°C                 |
| <b>Temperature gradients</b>     | (0.1 to 10.0)°C/Min    |
| <b>Opening capillary size</b>    | I.D>1.0 mm, O.D.1.4 mm |
| <b>Temperature resolution</b>    | 0.1°C                  |
| <b>Temperature control range</b> | RT to 100°C            |

Melting Point Apparatus LDMP-B13 offers desktop design, Automatic detection method, with cooling function. Equipped with Peltier precise temperature function, In line with international standards such as CE & ISO for determination of the melting point of oils and fats. With addition of either high-definition camera or high definition video and camera technology, to delivers accurate, stable results, and user can clearly see the whole process of sample melting, automatic detection to eliminate the subjective error to determine the melting point.

## Features:

- TFT touch screen display
- Automatic detection method, with cooling function
- Capacity per batch is 2 pcs
- Designed with a key automatic detection function
- Use of double opening capillary size I.D>1.0 mm,O.D.1.4 mm
- In line with international standards such as CE & ISO
- Adopted with Peltier precise temperature function technology

## Applications:

It finds application across finding meting point of oil and fat in food and drug industry, biochemistry, medicines, mining, water management industry.

## Specifications:

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| <b>Model no.</b>          | <b>LD-LDMP-B13</b>                               |
| <b>Power</b>              | 110 to 220V 50, 60Hz 120W                        |
| <b>Weight</b>             | 5 kg                                             |
| <b>Display</b>            | TFT Touch screen                                 |
| <b>Dimension</b>          | 400 × 280× 330 mm                                |
| <b>Interface</b>          | USB RS232 SD card Enternet                       |
| <b>Repeatability</b>      | 0.1°C/Min , ±0.1°C                               |
| <b>Camera &amp; Video</b> | Camera & Video                                   |
| <b>Result storage</b>     | 1000                                             |
| <b>Video playback</b>     | Yes                                              |
| <b>Detection method</b>   | Fully automatic (compatible with Semi-automatic) |
| <b>Operator account</b>   | 20                                               |
| <b>SD card capacity</b>   | 16 G                                             |
| <b>Capacity per batch</b> | 2 pcs/batch                                      |

|                                  |                        |
|----------------------------------|------------------------|
| <b>Temperature accuracy</b>      | ±0.3°C                 |
| <b>Temperature gradients</b>     | (0.1 to 10.0)°C/Min    |
| <b>Opening capillary size</b>    | I.D>1.0 mm, O.D.1.4 mm |
| <b>Temperature resolution</b>    | 0.1°C                  |
| <b>Temperature control range</b> | 4 to 100°C             |

Melting Point Apparatus LD-LDMP-A32 offers a processing capacity of four-sample batches for simultaneous processing up to 4 capillary tube samples per run. The system has an integrated visual monitoring system, featuring high-resolution optics to precisely observe melting transitions. It is equipped with a bright sample chamber illumination, ensuring visible observation of samples throughout the melting process. Our melting point apparatus is constructed from high-quality stainless steel and aluminum, delivering precise thermal conductivity.

Features:

- Capillary Tube Sample Holders
- High-Precision Temperature Sensors
- Automated Melt Detection
- Optical / Magnification System
- High- Speed Preheating Mode

Applications:

Melting Point Apparatus LD-LDMP-A32 observes the precise temperature range at which it transitions from solid to liquid. It is widely used in forensics, pharmaceuticals, and chemical industries for identifying unknown solids by comparing their melting behavior.

Specifications:

|                  |                                                   |
|------------------|---------------------------------------------------|
| Model no.        | LD-LDMP-A32                                       |
| Accuracy         | ± 0.3°C (< 200° C) ± 0.5°C (>200° C)              |
| Data Storage     | 32 Hard Drive, 2GB Memory                         |
| Display Mode     | 8’HD Color Screen                                 |
| Heating Mode     | Conduction fluid heating or hot block air heating |
| Power Supply     | 110 to 220 V 50 Hz / 60 Hz                        |
| Warming Rate     | 0.1°C to 20°C                                     |
| Magnification    | 20                                                |
| Repeatability    | ± 0.1°C at 0.1°C / Min                            |
| Data Interface   | USB, network wifi interface, RS 232               |
| Video Function   | Take pictures and Videos                          |
| Video Playback   | Have a time watermark                             |
| User Management  | >60                                               |
| Detection Method | Fully automatic                                   |

|                                      |                                                          |
|--------------------------------------|----------------------------------------------------------|
| <b>Power Consumption</b>             | 120 W                                                    |
| <b>Temperature Range</b>             | RT to 350°C                                              |
| <b>Processing Capacity</b>           | 4 / batch                                                |
| <b>Temperature Resolution</b>        | 0.01°C                                                   |
| <b>Standard Capillary Size</b>       | Outer diameter 1.4mm, inner diameter 1.0 mm              |
| <b>Temperature Control Mode</b>      | PID temperature control furnace body fully sealed design |
| <b>Experimental Method Storage</b>   | 300 sets                                                 |
| <b>Packing Dimension (W × D × H)</b> | 500 × 300 × 400 mm                                       |