

# MQ Micro Processor Melting Point Apparatus

Cat No: MPA-M-400

**MOLEQULE-ON**<sup>®</sup>



## Description

MQ Micro Processor Melting Point Apparatus is a fully automatic device to measure melting point of a substance. Melting point of a substance is the temperature at which the material changes from a solid to a liquid state. In organic chemistry, melting point determination is not only the basic approach to determine the nature of material, but also an important method to obtain the purity of a substance. Therefore, melting point apparatus is widely used in chemical industry and the medical research, and it is a must have instrument in the manufacturing of medicine, spices dyes another organic crystal substances.

## Features

- Fully automatic test method.
- Apply capillary method and measure the sample via photoelectric detection principles.
- Temperature ranges from ambient to 400°C.
- Stepless ramping rate of 0.1°C to 10°C/minute.
- Auto determine initial melting point and final melting point without human intervention.
- Three kinds of melting point determination modes (standard, long distance and learning models) adapt to variety of samples.
- Quick, efficient and reliable melting point determination.
- LCD display is intuitive.
- Numeric key pad, input simplify the operation.
- Unique digital temperature control technology with high accuracy.
- Wider ramp rate with stepless speed.
- Capillary tubes method conforms to pharmacopoeia.
- Up to 3 points temperature correction.
- Precise control of oven temperature makes comfortable and easy operation.
- No artificial monitoring helps faster and reliable, measurement performance.

## Specifications

Model	MPA-M-400
Test method	Fully automatic
Sample loading way	Capillary tube method
Temperature range	Ambient to 400°C
Minimum temperature resolution	0.1°C
Ramp rate	Stepless setting at 0.1°C~10°C/minute
Ramp error rate	≤5%.
Accuracy	±0.4°C (<200°C) ±0.7°C (≥200°C)
Reproducibility	0.2°C (ramp rate 0.2°C/min) 0.3°C (ramp rate 1°C/min)
Heating/cooling time	≤3 minutes/3.5 minutes (50°C - 400°C)
Number of capillaries	One
Capillary dimensions	1.4mm outside dia., 1.0mm inside dia., 90mm length
Fill height	3mm – 5mm
Display	4.3 inch LCD
Communication	USB for PC+RS232 for printing
Print function	Included
Power supply	110/220V, 50/60 Hz