

**Cole-Parmer®**

## Cole-Parmer® Melting Point MP-250D

- Temperature resolution  $\pm 1^{\circ}\text{C}$
- Accommodates 3 melting point capillaries of up to 2mm outside diameter
- Tube guide removal for cleaning and use of cold finger
- 32-bit processor
- 4 x 1 melt memory capacity
- 3-key membrane keypad



# Cole-Parmer® Melting Point MP-250D

The Cole-Parmer® updated and improved MP-250D series digital melting point apparatus offers an easy way to measure the melting points of samples without sacrificing accuracy; the temperature resolution is within 0.1°C. It is ideal for multiple users, being ergonomically designed to ensure comfortable viewing for everyone, with a height-adjustable extension arm and a viewing head that may be rotated to suit each user. As a visual aid, the viewing head holds a viewing magnifier that offers 8X magnification. The melting point apparatus has a membrane keypad with easy-to-use menus.

As a further convenience, the extension arm is completely collapsible and can be neatly folded away into the unit, so that the unit can be stored flat to save space. The MP-250D-P and MP-250D-PR melting point apparatus models offer the option of storing 500 to 1000 melting point determinations and can be connected to a printer. Each MP-250D series model comes supplied with a pack of 100 capillary tubes.

## Performance

- Membrane keypad with simple menus for intuitive use
- Push button controls are conveniently located to ensure that temperatures can be recorded without looking away from the sample
- Digital microprocessor with  $\pm 0.1^\circ\text{C}$  resolution provides fast warm-up and accurate temperature control
- Samples in 3 capillary tubes may be viewed simultaneously.

## Safety and convenience

- 3 Audible beeps indicate that the oven temperature is stable and ready for sample
- Adjustable arm with viewing magnifier can be folded away into the unit
- Adjustable object lens for sharp focus
- Rotating viewing head and safety eye piece to protect against glare and hot zone
- Integral light and wide angle 8X viewing magnifier enhance sample observation, so that all 3 samples can be viewed without eye strain
- Units can be calibrated by the user on their site or by the manufacturer/ service organisation. If calibrated by the user, a calibration kit is required
- Improved calibration procedure using a calibration key

## Technical Specification

Specification	MP-250D-F	MP-250D-P	MP-250D-PR	MP250D
32-bit Processor	•	•	•	•
Accommodates 3 capillary tubes up to 2mm OD (Storage for pack 100)	•	•	•	•
Tube Guide removal for cleaning and use of cold finger.	•	•	•	•
40mm diameter Lens (magnification x 8) removable and with adjustable focus	•	•	•	•
Oven temperature range (ambient to 400°C)	•	•	•	•
Temperature resolution $\pm 0.1^\circ\text{C}$	•	•	•	$\pm 1^\circ\text{C}$
Accuracy $\pm 1\%$	•	•	•	•
13-key membrane keypad	•	•	•	•
Cooling temp selection	•	•	•	•
Fast ramp rate of 10°C/minute	•	•	•	•
Selectable ramp rate of 1.0°C/min & 10°C/min	•	•	•	•
Selectable ramp rates of 0.2 - 10°C/min	-	(default 0.2°C/min)	(default 1.0°C/min)	-
White LED illuminated oven	•	•	•	•
Date & Time facility	-	•	•	-
Printer Output facility	-	•	•	-
USB Output to flash drive	-	•	•	-
Display (2 rows of characters with backlit LCD)	•	•	•	•
4 x 1 Melt memory capacity	•	•	•	•
3 x 2 Melt memory capacity	-	•	•	-
Batch memory capacity of 500 melts	-	•	•	-
Batch memory capacity of 1000 melts	-	•	•	-
Serial (RS232-C) Port for Printer	-	•	•	-
Dimensions (d x w x h), mm	355 x 200 x 80	355 x 200 x 80	355 x 200 x 80	355 x 200 x 80
Shipping Weight, kg	2.5	2.5	2.5	2.5

## Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Fixed ramp rate model (100-240V, 50 / 60Hz, 15DC, 45W)	03010-51	MP-250	MP-250D-F	IA9100
Programmable ramp rate model (100-240V, 50 / 60Hz, 15DC, 45W)	03010-41	MP-250	MP-250D-P	IA9200
Beginning / ending recording model for Pharmacopeia requirements (100-240V, 50 / 60Hz, 15DC, 45W)	03010-59	MP-250	MP-250D-PR	IA9300
Beginning / ending recording model for Pharmacopeia requirements with IQ/OQ documentation (includes calibration key kit) (100-240V, 50 / 60Hz, 15DC, 45W)	03010-64	MP-250	MP-250D-PR	IA9300/IQOQ
Fixed ramp rate model (100-240V, 50 / 60Hz, 15DC, 45W)	03010-15	MP-250	MP-250D	1101D

## Accessories Ordering Information

Description	Ordering Number	Legacy Sku.
Cold finger	03010-63	AZ9001
Calibration key	03010-65	AZ9253
Capillary tubes 1.5mm (10x100 pack)	03010-67	AT4042
Capillary tubes 2.0mm (10x100 pack)	03010-68	AT4043
Printer (with connecting ribbon cable)	03010-69	PR2000S
Paper roll (2) and ribbon for printer	03010-62	AT4044



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