

# 1101D and 1102D Mel-Temp®

## Digital Melting Point Apparatus

The updated 1101D Mel-Temp® Digital Melting Point Apparatus offers a quick and easy way to measure the melting points of samples at a budget price. 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.

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.

Each Digital Mel-Temp® comes supplied with a complimentary pack of 50 capillary tubes, its own power supply and power cable.

The 1101D Mel-Temp® has power requirements of 115-120V and 50-60Hz. The 1102D Mel-Temp® Digital Melting Point Apparatus has exactly the same functionality, but has power requirements of 230-240V; 50-60Hz.

## 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  $\pm 1^\circ\text{C}$  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 8x 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 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 manufacturer/service organisation. If calibrated by the user, a calibration kit is required.

## Key Features

- 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
- 13-key membrane keypad



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### Technical Information

Colour	Black
Processor	32-bit Processor
Keypad	13-key membrane keypad
Capillary tubes	Accommodates 3 capillary tubes up to 2mm OD (Storage for pack 100)
Tube Guide	Tube Guide removal for cleaning and use of cold finger
Lens	40mm diameter lens (magnification 8x) removable and with adjustable focus
LED	White LED illuminated oven
Melt memory	4 x 1 Melt memory capacity
Temperature range	Ambient to 400°C
Fixed temperature ramp rate	1.0°C/minute
Fast temperature ramp rate	10°C/minute
Temperature resolution	±1°C
Accuracy	±1%
Temperature sensor	PT100 Platinum Resistance
Display	2 Rows of 12 characters with backlit LCD
Power requirements	115-120V, 50-60Hz for 1101D 230-240V, 50-60 Hz for 1102D
Dimensions (d x w x h), mm	355 x 200 x 80
Shipping weight, kg	2.5

### Ordering Information

#### 1101D and 1102D Mel-Temp®

Model	Description	Electrical Requirements
1102D	Mel-Temp® Fixed Ramp Rate Model	230V, 50/60Hz, 45W
1101D	Mel-Temp® Fixed Ramp Rate Model	115V, 50/60Hz, 45W
1102DX6	Mel-Temp® Fixed Ramp Rate Model	230V, 50/60Hz, 45W with EU plug

*\*Please note that each instrument is supplied with a pack of 50 capillary tubes, power supply and power cable.*

### Accessories - Ordering Information

Part Code	Description
AZ9001	Cold Finger
AZ9002	Dust Cover
AZ9218	P-nitrotoluene
AZ9118	Carbazole (245.61deg) 0.5g
AZ9253	Calibration Key
AT4042	Capillary Tubes 1.5mm (10x100 pack)
AT4043	Capillary Tubes 2.0mm (10x100 pack)
PR2000S	Printer (with connecting ribbon cable)
AT4044	Paper Roll (2) and ribbon for printer
AZ9220	1A PSU Mains lead (UK)
AZ9220X1	1A PSU Mains Lead (115V – USA)
AZ9220X6	1A PSU mains Lead (European)



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.