

# PET-MELT

AUTOMATIC ELECTRO-THERMAL DIGITAL  
MELTING POINT DEVICE

THE IDEAL DEVICE FOR BASIC MELTING POINT TESTING

- COMPLETELY AUTOMATED OPERATION
- QUICK ANALYSIS
- ACCURATELY CONTROLLED TEMPERATURE RAMPING
- CONFORMS TO PHARMACOPEIA AND GLP



The **standard model** of the PET-melt is ideal for basic melting point testing. A 1°C / minute ramp heats the sample. The **programmable model** features 5 pre-set temperature ramps, or can be programmed for any rate from 0.2°C/minute to 10°C/minute in 0.1°C increments. Store up to 4 temperatures in temporary memory.

The PET-melt features closed-loop, microprocessor-based control of oven temperature and readout, and has a built-in memory for temperature storage of melting point temperature date. This allows the analysis of consecutive samples using the same control parameters. The heating block holds up to three 2-mm diameter capillary tubes. An adjustable magnifying lens (40mm dia.) permits clear viewing.

Additional features are:

- High sensitivity
- Live display of measurement
- Peak integration, background subtraction
- Manual or automatic
- Detection calculation limit



#### Technical specifications

Start temperature range:	(ambient +10°C) to 396°C, 0°C minimum setting point
Stop temperature range:	(start temperature +4°C) to 400°C
Temperature resolution:	0.1°C
Ramp rate:	0.1°C to 20°C per minute (0.1°C increments)
Heat-up time:	~10 minutes (50°C to 350°C)
Cool-down time:	~10 minutes (350°C to 50°C)
Temperature accuracy:	+/- 0.3°C (up to 100°C) - +/- 0.5°C (up to 250°C) - +/- 0.8°C (up to 400°C)
Reproducibility:	0.2°C

Temperature display melting point and melting point range

Built-in platinum Resistance Temperature Detector (RTD)

Oven control closed-loop Proportional Integral Derivatives (PID)

#### Physical specifications

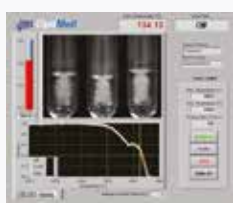
Dimensions	W190xH220xD260mm (W7,5"xH8,5"x1D10")
Weight	5 kg (11,02 lbs)

#### Included

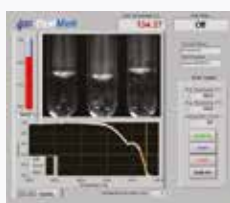
100 capillary tubes. The 120 VAC models include a 3-ft (1-m) cord with a three-prong plug; the 240 VAC models include two 3 ft (1 m) cords, one with a European plug and one without a plug.



Solid samples



Meniscus point



Clear point