

Melting Point Excellence

One Click™ Melting Point

Efficiency at the Highest Level



Maximum Efficiency

Simultaneous measurement of up to 6 samples saves valuable time and effort. Short heating and cooling times allow more analyses to be performed in a shorter period of time.



Compliance with Standards

Full compliance with the relevant international and national standards and norms, such as Ph.Eur., USP, Ch.P., and JIS is ensured.



Enhanced PC Software

LabX® software conveniently manages measurement results, offers full support to comply with the 21 CFR Part 11 regulations and enables a smooth and seamless LIMS/SAP integration.



Accessory Boxes

The accessory box contains all required tools for correct sample preparation and handling. The innovative sample preparation tool simplifies the optimal filling and simultaneous insertion of multiple capillaries.



MP90 Melting Point System

The MP90 is optimized for the highest throughput. The many advantages available with this Excellence Melting Point System include:

- One Click™ melting point determination
- Simultaneous measurement of up to 6 samples
- Maximum temperature of 400 °C
- Large reference substance database
- Accessory box included in standard delivery

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MP90 Functionality Overview

Applications	Fully automatic melting point (MP) and melting range (MR) determination. Pharmacopeia and Thermodynamic measurement modes
One Click™	12 shortcuts per user
Documentation	USB-P25 compact printer, network printer USB memory stick and network connection for import/export and PDF storage
User Identification	30 different users, customized user rights/roles
Methods and Results	Pre-programmed method templates for automatic MP and MR detection. 60 methods, 100 reference substances
	Statistics: mean value, standard deviation, difference, outlier result exclusion possible
	Maximum number of results: 100
	Video storage and replay on instrument and PC (with intensity curves)
	300 min total video run time
Calibration and Adjustment	Fully automatic optics adjustment (position and brightness)
	One-, two and three-point temperature adjustment, automatic calibration and calculation of adjustment parameters. VPac™ pre-filled, ready-to-use capillaries filled with certified reference substances for temperature calibration and adjustment (optional)
Languages	User interface in English, German, French, Spanish, Italian, Portuguese, Chinese, Russian, Japanese, Korean Printout in English, German, French
Standard compliance	www.mt.com/mpdp-norms

MP90 Technical Specifications

Temperatures	Measurement range	Ambient – 400 °C
	Heating rate	0.1 – 20 °C/min
	Resolution	0.1 °C
	Heating time (50 to 400 °C)	5 min
	Cooling time (400 to 50 °C)	6 min
Environment	Ambient temperature	10 – 35 °C
	Atmospheric humidity	Max 80% at 31 °C
Dimensions	Width x depth x height	18 x 35 x 19 cm
	Weight	4 kg
	Capillaries	MP: 6 (< 1.8 mm o.d.)
Terminal	7" display with color touch screen	
	Video: color AVI, 9x magnification	
Communication	USB host (printer, memory stick, barcode reader, hub, keyboard, mouse): 3	
	Ethernet (Network and PC Software)	
	LabX® Express and Server	
Accuracy Melting Point*	Ambient – 200 °C	+/- 0.2 °C
	200 – 400 °C	+/- 0.5 °C

* Subject to sample, environment and handling

METTLER TOLEDO Group

Analytical Division

Local contact: www.mt.com/contacts

www.mt.com/MPDP

For more information

Subject to technical changes

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