

One Click™ Melting Point Simple and Versatile



Reliable Results

No need for continuous visual observation. The automatic detection of transmission intensity and digital image analysis replaces time-consuming and error-prone manual measurement.



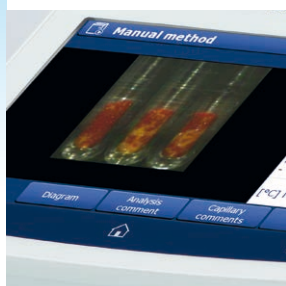
One Click™ User Interface

The large color display with the intuitive One Click™ touchscreen user interface minimizes training and operator influence. Quick familiarization is guaranteed with the common user interface for all Analytical Laboratory instruments.



Maximum Efficiency

Simultaneous measurement of up to 3 samples for melting point/melting range, or up to 2 for slip melting point saves valuable time and effort. Short heating and cooling times allow more analyses to be performed in a shorter period of time.



Video Recorded

Visual data is stored for unattended measurements. The high resolution videos can be conveniently replayed on the instrument at any time, allowing measurement integrity to be verified.



MP55 Melting Point System

Everything needed for the simple and automatic determination of melting and slip melting points. The MP55 is the ideal starter model and offers far more than can be expected from a standard melting point device:

- One Click™ melting and slip melting point determination
- Simultaneous determination of up to 3 melting point/melting range or 2 slip melting point samples
- Widescreen display with color touch screen
- Video recording
- Compact printer
- PDF export to USB stick

MP55 Functionality Overview

Applications	Fully automatic melting point (MP), melting range (MR) and slip melting point (SMP) determination. Pharmacopeia measurement mode, fixed evaluation parameters
One Click™	12 shortcuts per user
Documentation	USB-P25 compact printer USB memory stick for import/export and PDF storage
User Identification	30 different users with full functionality access
Methods and Results	Template for automatic MP, MR and SMP detection Statistics: mean value, standard deviation, difference, outlier result exclusion possible Maximum number of results: 10 Video storage and replay on instrument (with intensity curves) 60 min total video run time, stored on instrument
Calibration and Adjustment	Fully automatic optics adjustment (position and brightness) One- and two-point temperature adjustment, automatic 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

MP55 Technical Specifications

Temperatures	Measurement range	Ambient – 300 °C
	Heating rate	0.1 – 20 °C/min
	Resolution	0.1 °C
	Heating time (50 to 300 °C)	3 min
	Cooling time (300 to 50 °C)	4 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: 3 (< 1.8 mm o.d.) SMP: 2
Terminal	7" display with color touch screen	
	Video: color AVI, 9x magnification	
Communication	USB host (printer, memory stick, barcode reader, hub, keyboard, mouse): 3	
Accuracy Melting Point*	Ambient – 200 °C	+/- 0.2 °C
	200 – 300 °C	+/- 0.5 °C
Repeatability Slip Melting Point*		+/- 0.2 °C

* Subject to sample, environment and handling