

Melting Point Apparatus

Melting Point Apparatus, digital, SMP10 and SMP20

The SMP10 and SMP20 have been designed with safety and ease of operation in mind making it ideal for use in education. The SMP10 displays temperature to 1 degree resolution while the more advanced SMP20 has a 0.1 degree resolution as well as a variable ramp rate and hold key so that the exact melt temperature can be recorded.

Two samples can be tested simultaneously. They are viewed via a magnifying lens with clear observation aided by built in illumination. Extendible back feet allow the unit to be operated at the optimum viewing angle. Full access to the block aids cleaning. The simple to follow instructions are printed directly on the instrument in most European languages for ease of use.

To operate simply select a plateau temperature via the digital display and press "start". The unit quickly heats up and remains at the selected plateau temperature until the user is ready to start the test. Insert the sample tubes and press "start". The unit then heats at a fixed rate of 2°C per minute for the SMP10 and at a user selected rate of between 1 and 10°C per minute for the SMP20. When the sample is seen to melt, note the temperature on the display. Press "stop" to end heating and cool the block.

- Digital selection & display of temperature
- Choice of accuracy, 1 or 0.1 degree resolution
- Easy to operate with plateau facility
- Ideal for educational use
- Supplied with calibration certificate



MP/15202

Technical Specifications

	SMP10	SMP20
Number of samples		2
Temperature range		Ambient to 300°C
Temperature accuracy	± 1.0°C at 20°C	± 2.5°C at 300°C
Display	Three digit LED	Four digit LED
Display resolution	1°C	0.1°C
Display hold facility	No	Yes
Ramp rates	20°C per minute to plateau, 2°C per minute to melt	20°C per minute to plateau, variable between 1 and 10°C per minute to melt
Dimensions (w x d x h)		160 x 220 x 170mm
Net weight		1.8 Kg
Electrical supply		230V, 50Hz, 75W

Cat. No.	Model	Description
MP/15202	SMP10	Melting point apparatus, 1°C resolution, with pack of 100 melting point tubes, closed one end
MP/15204	SMP20	Melting point apparatus, 0.1°C resolution, with pack of 100 melting point tubes, closed one end
Accessory/Spare		
MP/15302	SMP10/1	Glass melting point tubes, closed one end, pack of 100



MP/15204

Melting Point Apparatus, advanced, SMP30

The SMP30 can take three samples simultaneously within the optimised heating block. To allow maximum flexibility a plateau facility is included with variable ramp rate between 0.5 and 10°C in 0.1°C increments. The tubes are illuminated with bright white LED's to give the clearest view of the samples during the melt. The block has been designed for easy access for cleaning. To allow the most comfortable viewing angle the SMP30 features a two stage head adjustment.

The SMP30 features a heads up display (patent pending), this unique feature displays a floating image of the block temperature, visible through the eyepiece, in front of the tubes.

An accessory printer is available separately to produce a written record of the melt.

- Maximum temperature 400°C
- Heads up display
- Integrated cooling 350°C to 50°C in 10 minutes
- Large easy to read user friendly interface



MP/15102

For technical specification and ordering information, see next page.