



Benchtop Science Equipment

 


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### Melting point apparatus, Digital, SMP10 and SMP20

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

The SMP10 and SMP20 have been designed with safety and ease of operation in mind making it ideal for use in education. The temperature is selected, measured and displayed digitally making it accurate and negating the need for a thermometer. 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.

Supplied complete with calibration certificate showing individual serial number for traceability.

Model	SMP10	SMP20
Number of samples	2	2
Temperature range	Ambient to 300°C	Ambient to 300°C
Temperature accuracy	± 1.0°C at 20°C, ± 2.5°C at 300°C	± 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	160 x 220 x 170mm
Net weight	1.8 Kg	1.8 Kg
Electrical supply	230V, 50Hz, 75W	230V, 50Hz, 75W

### Melting point tubes

Made from soda glass, these tubes are easy to seal in a Bunsen flame and break into two. Supplied in robust tube holder, pack of 100 tubes. Tube overall length is 100mm Tube diameter = 1.9mm, inner diameter = 1.3mm and wall thickness = 0.3mm.

Model	Description
SMP10	Melting point apparatus, 1°C resolution, complete with pack of 100 melting point tubes, closed at one end
SMP20	Melting point apparatus, 0.1°C resolution, complete with pack of 100 melting point tubes, closed at one end
SMP10/ 1	Glass melting tubes, closed at one end, pack of 100
SMP2/ 1	Glass melting tubes, closed at both ends, pack of 100
SMP1/ 4	Glass melting tubes, open at both ends, pack of 100

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[Application notes](#)  
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### Further Information

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