

# Melting Point Melting Range Boiling Point



## Check Melt Series .... 3 models to choose from

The Melting Point, Melting Range & Boiling point are standard parameter to check the sample purity, to identify products or to measure mixture contents. This technique is widely established as a basic characteristic of chemical compound. SPECTRALAB offers the solutions for visual determination with high accuracy.

### Check Melt - OB



- \* Uses Oil Bath
- \* Both Melting & boiling point
- \* Manual Detection
- \* Temperature range (Ambient + 5)°C to 300°C

### Check Melt - SB

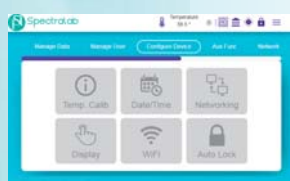
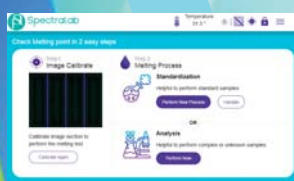


- \* Uses Solid Aluminum block
- \* Both Melting & boiling point
- \* Manual Detection

### Check Melt VR



- \* Uses Solid Aluminum block
- \* Automatic Melting Point Apparatus with Video Recording
- \* Automatic Detection



#### Modes of operation

##### 1. Standardization

This mode is used for standardization of instrument for routine use. The instrument is standardized within sample range to be analysed with two or three standards

##### 2. Analysis

Used for routine analysis of samples.

#### Interface:

Easy Gui access for editing

1. date & Time
2. Network setting
3. Display setting
4. wifi setting
5. app auto lock setting

#### Report:

Date, time, user name, reviewed by, approved by stamped GLP compliance report Different types of reports - result, parameter, document and graph - are provided . user can use it for quick view, print report or save report to USB stick (pen drive) in pdf format.

#### Online video for melting process

Online video provides real time presentation of state of sample under process. last video is recorded for offline observation of melting process

## Selection Guide to choose the model



Specifications	Check Melt - OB	Check Melt - SB	Check Melt - VR
Heating Media	Oil Bath with Magnetic Stirrer	Solid Aluminum Block	Aluminum block with protective coating
Range	(Ambient + 5)°C to 300°C.	Ambient + 5)°C to 400°C	Ambient + 5)°C to 400°C
Temp. Accuracy	±0.5°C (0 to 300°C)	±0.5°C (0 to 400°C)	±0.3°C (0 to 200°C) ±/-0.5°C (200 to 400°C)
Heating Time	20 min. (50°C to 300°C)	20 min. (50°C to 400°C)	15 min. (50°C to 300°C)
Cooling Time	20 min. (300°C to 50°C)	20 min. (400°C to 50°C)	15 min. (300°C to 50°C)
No. of samples	3 melting point or 1 boiling point at a time	3 melting point or 1 boiling point at a time	4 Samples
Control Module	PID controller	PID controller	PID controller
Graphic LCD Display	128 x 64 Dots Blue-White	128 x 64 Dots Blue-White	7" TFT touch display
Keyboard	Soft touch membrane type	Soft touch membrane type	Touch screen (optional Cordless mouse, keyboard)
Power Supply	230V +/- 10% AC 50Hz.	230V +/- 10% AC 50Hz.	230V +/- 10% AC 50Hz.
Interface	Both Serial RS 232 & Parallel. (Optional Serial Dot matrix printer)	Both Serial RS 232 & Parallel. (Optional Serial Dot matrix printer)	USB interface for printer, keyboard, and mouse. Lan, wan interface for computer
Heater	48V, 120W	48V, 120W	120W
Temp. Resolution	0.1°C	0.1°C	0.1°C
Ramp Rate	0.5/1°C/min	0.5/1°C/min	0.1°C to 20°C
Reproducibility	1.0 %	1.0 %	± 0.2°C
Mode of detection	Manual	Manual	Automatic /Manual
Result	Melting point, Melting range & Boiling point.	Melting point, Melting range & Boiling point.	Melting point & Melting range (auto/manual) of sample in terms of °C with sample result report.
Reports	Date & Time stamped GLP Compliant 200 Result Reports.	Date & Time stamped GLP Compliant 200 Result Reports.	Date & Time stamped GLP Compliant 1000 Result Reports with Parameters.
User Methods	100 for Melting point & 30 for Boiling point.	100 for Melting point & 30 for Boiling point.	1000 methods in all for Melting point

( Due to continuous R & D, the specification & Dimensions are subject to modification.)