

Automatic Melting/Boiling Point Apparatus Model: μ ThermoCal25+ | Make: ANALAB | HSN Code: 90278990



Supplied with Melting Capillary One End Sealed (Pack of 100 Nos.), Boiling Tube, Sample Tapping Rod, Two Melting Standards 49°C and 238°C, Forceps, Power Cord, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.



Technical Specification:

Temperature Controller : Microcontroller Based

Detection Principal of Melting Point: Automatic by Silicon Photodiode

Heating Media : By Aluminum Block

Temperature Range : $+5^{\circ}$ C above ambient to 400° C

Temperature Accuracy : A) 10° C above ambient to 100° C $\pm 0.2^{\circ}$ C

B) 101° C to 200° C $\pm 0.4^{\circ}$ C

C) 200° C to 400° C $\pm 0.5^{\circ}$ C

Readability : 0.1°C

Overheating Protection : In-built - Set by user in method parameter

Heating Before EMP* : Automatic heating depending upon temperature difference

Heating Rate : 1.0 °C/min

Maximum Heating Time : Around 6 minutes from 50°C to 350°C Maximum Cooling Time : Around 6 minutes from 350°C to 50°C

Detection of Melting : A) Melting Point

B) Melting Range

Type of Detection : Auto / Manual (Color sample can be analysed by Manual detection.)

Melting Point Average Reading: For Three Same Sample

Melting Capillary Ports : Three - One sample at a time

Detection of Boiling Point : Manually by viewing in TFT Display

Boiling Tube : One

Calibration : Eight Calibration Standards

(Six as per Pharmacopeia AND / OR Customer's known standards)

Method : 06 methods for Melting sample, 01 for Boiling sample and 1 for

unknown sample with View, Print & Delete facility.

Temperature Sensor : Duplex PT-100, One for internal use and One for calibration purpose by

external Source

Glass Melting Capillary : OD: 1.4 to 1.6mm | ID: 1.0mm | Length: 100mm | One End Sealed

Sample Filling Height : 3mm

Magnification : 5x

Viewing of Capillary : Camera with TFT Display for viewing Melting Capillary and Boiling

Tube in CAPillaryVIEW

Display : 20 x 4 Line Alphanumeric Backlit LCD

Keypad : Membrane waterproof polycarbonate soft touch keypad compliance to

UL/ROHS



Calibration Data Storage

: Non-Volatile Memory which can store, print & view calibration date & time, company name, standard name with temperature, actual reading of standard temperature, calibration done by, instrument serial number, instrument ID, model number etc.

Analysis Data Storage

More than 500 analysis data which can be viewed & Print, company name, analysis date & time, record number, *Username, *Sample Name, *Bath Number/ID, assigned method number, MP1 (On set temperature) & MP2 (Clear temperature) reading of all three reading, instrument serial number, Instrument Make & Model & *Signature etc. Secondly, analysis data can be print online without saving analysis data in Instrument. (*: Not Possible to enter Data by Instrument Keypad but it will be Handwritten)

Searching of data

: With record number by scrolling.

Report Formation

: As per Non-GLP Compliance

Printer Interface

: Centronics Parallel Port / Serial (RS-232 C) Port

Printer

: 40/80 Column Dot Matrix Printer (**Printer must procure optionally**)

Power Supply

: $230VAC \pm 10\%, 50 Hz$

* EMP: Expected Melting Point





Optional

1. IQ/QQ/PQ/DQ Documents

Note:

- 1) Please provide Customer's Name & Address prior to dispatch.
- 2) To perform onsite documentation, visit charge will be extra depending upon place of Installation.
- 3) Traceability documents along with installation report.
- 4) Standards / Chemicals / Buffers required to perform documents are in customer's scope.
- 5) We don't send documents by email.
- 2. Calibration Standard Kit for Melting Point Apparatus (ANALAB Certified) Consist of 06 Melting Standards as specified bellow, Melting Capillary One End Sealed 100 mm Long (Pack of 100) - 02 Pack, Boiling Tube - 02 Nos., Sample Tapping Rod. **Melting Standards:**

a) Benzophenone - Melting Range : 47 - 49 °C : 81 - 83 °C b) Vanillin - Melting Range : 121.5 - 123.5 °C c) Benzoic Acid - Melting Range d) Sulfanilamide - Melting Range : 164 - 167 °C e) Caffeine - Melting Range : 235 - 238 °C f) Phenolphthalein - Melting Range : 258 - 262 °C

Note: Melting Range / Melting Point specified on standard bottle is re-pack based on the values of batch number specified by manufacturer and their COA.

Keypad Screen Guard

Available other Models of Melting / Boiling Point Apparatus

- Microcontroller Based Melting/Boiling Point Apparatus Model: ThermoCal Resolution: 1.0°C& Temp.: 300°C with Silicon Oil
- Microcontroller Based Melting/Boiling Point Apparatus Model: μThermoCal10 Resolution: 0.1°C & Temp.: 300°C with Silicon Oil
- Programmable Melting/Boiling Point Apparatus Model: μThermoCal25 Resolution: 0.1°C & Temp.: 300°C with Silicon Oil & Printing Facility as per Non-GLP Format
- Resolution: 0.1°C, Temp.: 350°C & Printing Facility as per Non-GLP Format
- Automatic Programmable Melting Point Apparatus Model: *µ*ThermoCal50 with Manual Boiling Point, Block Technology, Resolution: 0.1°C, Temp.: 350°C & Printing Facility as per GLP Format
- Automatic Programmable Melting Point Apparatus Model: μ ThermoCal100 with Manual Boiling Point, Block Technology, Resolution: 0.1°C, Temp.: 400°C, Printing Facility as per GLP Format & 21 CFR Part-11 Compliance

Product Range

- pH/mV/°C/ORP Analyzer Conductivity/TDS/Resistivity/Salinity/°C Analyzer
- Multiparameter Analyzer (pH/ORP/Conductivity/TDS/Resistivity/Salinity/°C)
- Karl Fischer Titrator Auto Titrator Automatic Melting Point Apparatus
- Flame Photometer Friability Test Apparatus Tablet Dis-integration Test Apparatus • Tap Density Test Apparatus • Tablet Hardness Tester • Leak Test Apparatus
- Tablet Dissolution Test Apparatus Electromagnetic Sieve Shaker Ultrasonic Bath
- (Sonicator) Analytical Electronics Balance Halogen Based Moisture Analyzer
- Visible & UV-Vis. Spectrophotometer
 Nitrogen Gas Generator
 Zero Air Gas Generator • Combination Nitrogen / Zero Air Gas Generator • Air Drying Unit for TOC Analyzer • Dew Point Apparatus • Gas Handling & Purification System • Laboratory

Furniture & Fume Hood • Exhaust Hood for AAS/ICP.









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