

LIQUID TEMPERATURE CALIBRATION BATH

MODEL : TCAL 1501 / 250



Introduction

SANSEL Model TCAL 1501/250 of Liquid Temperature calibration bath range from Amb. +5 to 250 °C are high precision, better resolution, stability, fast in heating and cooling. Large volume testing area 60mm Dia x 120mm Depth to calibrate more number of Thermometer at a time with better uniformity using Magnetized stirring. These models can meet any calibration requirement in laboratories or in on site applications. This models are inbuilt measuring facility of the Thermocouples, RTD, Resistance, millivolt & milliamps to directly read the signals from most of the temperature sensors, indicator with sensor and Transmitter.

Temperature range from Amb. +5 to 250 °C with high resolution 0.01 °C up to 250 °C. This model is mainly used in all industries, like Pharmaceutical, food, Research & calibration laboratories etc., These models are using 4.3" True colour TFT display with Touch screen, easy to read multi parameter at the same time like, Block temperature, set temperature, measure value, Real time clock with date & time, Control Output %, Stability time & status, Range of the equipment with necessary unit of measurement and three soft touch keys are used for measure configuration, settings, calibration etc., It has one more advantage of help menu for operating instruction of the equipment via the same screen , Hence no need of Hard copy of Instruction manual.

Features

- ✓ 4.3 inch True TFT DISPLAY with touch screen
- ✓ Portable & Rugged
- ✓ Range from Amb. + 5 to 250 °C
- ✓ Resolution 0.01 °C
- ✓ Stability $\pm 0.03^{\circ}\text{C}$
- ✓ Uniformity better than $\pm 0.15^{\circ}\text{C}$
- ✓ UUC measure option provided
- ✓ Stabilization time & status indication provided
- ✓ Inter changeable insert to suit different diameter sensor - up to 60 mm
- ✓ Optional PC Interface with automatic calibration software

Technical Specifications

Model	TCAL 1501 / 250
Temperature Range	Amb. +5 to 250°C
Resolution	0.01°C
Stability	$\pm 0.03^{\circ}\text{C}$
Accuracy	Better than $\pm 0.3^{\circ}\text{C}$
Radial Uniformity	Better than $\pm 0.15^{\circ}\text{C}$
Display	4.3 inch True TFT display with touch screen
Stabilization Time	45 minutes
Heating time	60 mins (Amb. to 250°C)
Cooling time	90 mins (250 to 50°C)
Chamber Dimension	80 x 140 mm (dia X depth)
Testing area	60 x 120 mm (dia X depth)
Temperature medium	Silicon oil (200cs recommended)
Measure inputs	RTD-PT 100, PT 1000 / TC-J, K, R, S, T, E, B , N / mA /mV / ohms
PC Interface	RS 232 (optional)
Power supply	230V AC or 110V AC 50/60Hz
Power Consumption	1200 VA
Switch test	Provided
Dimension in mm	340 x 175 x 425 (L x W x H) (Approx.)
Weight (Approx.)	12 kg (without oil)

Note: Due to continuous product improvements, Published specifications may change with out notice

SANSELSOFT Calibration software (optional)

Optional fully automatic documentation calibration software “SANSELSOFT” is provided with TCAL 1501 / 250 to calibrate different variety of UUC automatically from your PC or Laptop and generate the calibration report with exact results without your presence always near TCAL 1501 / 250 , will save your time to concentrate in various jobs. The SANSELSOFT calibration software having easy following steps makes your calibration easy , effective & time saver.

Step 1

- ❖ Create tag of Device / Unit under calibration (DUC/ UUC)
- ❖ Select tag of Device / Unit under calibration (DUC/ UUC) (if already tag created)

Step 2

- ❖ Specify calibration procedure

Step 3

- ❖ Select source calibration
- ❖ Select measurement calibration (if different measurement equipment available)

Step 4

- ❖ Select mode of calibration
- ❖ Select mode of Measurement (if different measurement equipment available)

Step 5

- ❖ Initialize source / Measurement Calibrators

Step 6

- ❖ Perform calibration

Step 7

- ❖ Specify Report number, Conclusion & Remarks

Step 8

- ❖ Print / Export Report

SANSELSOFT designed for perform calibration on field instruments with the use of standards and software communication. This software designed in the way, user can easily perform calibration. SANSELSOFT has powerful database support to maintain complete track records of each device calibration for long time.

SANSELSOFT supports communication interface standards RS 232 and provides facility to add new standard/DUC instrument library. SANSELSOFT can be adopted for various types of instruments like electronic, electrical, temperature, pressure and optical measurement devices. SANSELSOFT increases Standard's Life-time by eliminating key operations and saves maintenance cost.

Standard Delivery

1. Basic Instrument
2. Cable for Thermostat Switch Test
3. Cable for Thermocouple (TC) test probe
4. Cable for RTD test probe
5. Aluminium Dummy cover
6. Teflon top cover
7. Thermometer stand set
8. Silicon oil - 1 liters
9. SS insert bucket
10. Stir magnet (2 nos)
11. Instruction Manual
12. Traceable Calibration Certificate
13. Mains Card
14. Spare Fuses



Optional

1. Master Indicator with sensor
2. Additional well insert
3. ISO/IEC 17025 Accredited calibration certificate
4. Carrying case



Carrying case



SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES LLP

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879
(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

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