

DRY BLOCK TEMPERATURE CALIBRATOR

MODEL: TCAL 1501 / 600



INTRODUCTION

SANSEL Model TCAL 1501 series of Dry well Temperature calibrator range from -35 to 1200°C in four model (TCAL 1501 / -35, TCAL 1501 / 300, TCAL 1501 / 600 & TCAL 1501 / 1200) are high precision, better resolution, stability, fast in heating and cooling. More well dia and depth to calibrate more number of temperature sensor at a time with better uniformity.

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°C to 600°C with high resolution 0.01°C up to 600°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 600 °C
- ✓ Resolution 0.01 °C
- ✓ Stability ± 0.05°C
- ✓ Radial Uniformity ± 0.5°C

- ✓ UUC measure option provided
- \checkmark Stabilization time & status indication provided
- ✓ Inter changeable insert to suit different diameter sensor - up to 30 mm
- ✓ Optional PC Interface with automatic calibration software

Technical Specifications

Model	TCAL 1501 / 600
Display	4.3 inch True TFT LCD Display with Touch screen
Temperature Range	Amb. +5 to 600°C
Resolution	0.01°C
Stability	± 0.05°C
Radial uniformity	Better than ± 0.5°C
Measure inputs	RTD-PT 100, PT 1000 / TC - J, K, R, S, T, E, B , N / mA, mV, ohms
Temperature Readout	°C
Stabilization Time	15 minutes
Heating time	30 mins (25 to 600°C)
Cooling time	50 mins (600 to 100°C)
Well Dimension	30 x 150 mm (dia x height)
Test sensor immersion depth	140 mm
Standard well holes in mm	5.1, 6.2, 6.2 & 8.1
PC Interface (optional)	RS 232 with automatic calibration software
UUC Sensor supply output	24V DC ± 10% / 50mA max.
Power supply	230V AC ± 10% / 50Hz (optional 110V AC)
Power Consumption	1200 VA
Switch test	Provided
Overall Dimension in mm	285 x 155 x 330 (L x B x H) (Approx.)
Weight	8.5 kg (without well insert) (Approx.)

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 / 600 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 / 600 , will save your time to concentrate in various jobs. The SANSELSOFT calibration software having easy following steps makes your calibration easy, effective & time saver.

Create tag of Device / Unit under calibration (DUC/ UUC) Step 1 Select tag of Device / Unit under calibration (DUC/ UUC) (if already tag created) Specify calibration procedure Step 2 Select source calibration Step 3 Select measurement calibration (if different measurement equipment available) Select mode of calibration Step 4 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 Print / Export Report Step 8

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. Instruction Manual
- 3. Traceable Calibration Certificate
- 4. Mains Card
- 5. Spare Fuses
- 6. Well tool
- 7. Standard well insert 1 nos

Optional

- Master Indicator with sensor
- 2. Additional well insert
- 3. Carrying case

Carrying case





SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

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

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