

DRY BLOCK TEMPERATURE CALIBRATOR

MODEL : TCAL 1501 / -30



Calibration of Thermo couples, RTDs - type (PT 100, K, R, S, B, etc.)

The temperature calibrators and calibration bath are already a part of the standard equipment of the technician in the above listed sectors.

Digital Thermometers

Calibration is performed by comparison of the temperature measured by test piece and the block temperature indicated by the TCAL 1501 / -30 or comparison with master Thermocouple / RTD reading.

Thermocouples & RTDs

Temperature measuring facility is inbuilt with TCAL 1501 / -30. The calibration is performed by comparison of the temperature indicated on the measure mode with the block temperature.

INTRODUCTION

“SANSEL” series TCAL 1501 / -30 is a micro controller based precision “DRY BLOCK” temperature calibrators generates true reference temperature. The temperature controller of the calibrators uses a auto tune FUZZY PID controller algorithm. This response closely follows the heating / cooling curve of an actual thermal system.

Place the sensor to be calibrated in the calibrator. Set the temperature from the 4.3 inch true TFT display with touch screen. Both block, set and measure temperature can be read. When stabilization occurs, Simply read the temperature and re-calibrate the process system or sensor.

Applications

- Food Industries
- Pharmaceutical industries
- R & D Laboratories
- Calibrators laboratories
- Automobile industries etc.,.

FEATURES

- ✓ 4.3 inch True TFT DISPLAY with touch screen
- ✓ Range from -30* to 100°C
- ✓ Micro Controller Based Linearized High Accuracy
- ✓ Stable to $\pm 0.02^{\circ}\text{C}$
- ✓ Uniformity $\pm 0.2^{\circ}\text{C}$
- ✓ Resolution 0.01 °C
- ✓ Portable & Rugged
- ✓ No Liquids, Safe dry Calibration
- ✓ Optional PC Interface RS 485
- ✓ Temperature Switch Test
- ✓ NABL Traceable Calibration Certificate

Technical Specifications

Model	TCAL 1501 / - 30
Temperature Range	- 30* to 100 °C
Resolution	0.01°C
Stability	$\pm 0.02^{\circ}\text{C}$
Uniformity	$\pm 0.2^{\circ}\text{C}$
Display	4.3 inch True TFT DISPLAY with touch screen
Switch test	Provided
Heating time (mins)	20 (Amb. to 100°C)
Cooling time (mins)	25 (25 to -30°C) (100 to 25°C)
Stabilization time	10 minutes
Well Dimension(dia. x depth)	22 x 120 mm
Standard well hole in mm	5.2, 6.2, 6.2
PC Interface	RS 485 (optional)
Measure inputs	RTD - PT 100 / TC, - J, K, R, S, T, E, B , N / mA /mV / ohms
Power supply	110V AC or 230V AC 50/60Hz
Power consumption	500 VA
Dimension (L*W*H) (Approx.)	409 L X 178 W X 357 H (mm)
Weight	12.5 kg (without well insert & Carrying case) (Approx.)

Note: Due to continuous product improvements, Published specifications may change with out notice
 * Range from -30 to 100°C @ Ambient 25°C

Standard Delivery

1. Basic Instrument
2. Spare fuses
3. Cable for Thermostat switch test
4. Tool for Insertion Tube
5. Instruction manual
6. Mains card
7. Traceable calibration certificate
8. Dry block insert well
9. Carrying case

Optional

1. 110V AC 60Hz Power supply
2. Reference Standard Thermocouple



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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