

LIQUID TEMPERATURE CALIBRATION BATH

MODEL : TCAL 1501 / - 40



Front panel



Rear panel



Introduction

SANSEL series TCAL 1501/- 40 is a micro controller based precision “LOW TEMPERATURE LIQUID BATH” generates true reference temperature with high resolution and stability. The temperature controller of the bath uses a auto tune FUZZY PID controller algorithm. This fast response closing follows the cooling curve of an actual thermal system.

Place the thermometers and thermocouple & RTDs to be calibrated in the bath. Set the temperature from the 3.5 inch true TFT display with touch screen . Both liquid and set temperature can be read. When stabilization occurs, simply read the temperature and re-calibrate the thermometer, sensor etc., or comparison with master RTDs reading.

Applications

- ☐ Food industries
- ☐ Pharmaceutical Industries
- ☐ R & D laboratories
- ☐ Automobiles industries
- ☐ Calibrators laboratories etc.,.

Features

- ✓ 3.5" true color TFT display with touch screen
- ✓ Range from - 40 to 50°C
- ✓ Resolution 0.1°C
- ✓ Stability $\pm 0.05^\circ\text{C}$
- ✓ Radial uniformity better than $\pm 0.2^\circ\text{C}$
- ✓ Stability time & status indication provided
- ✓ Multi hole provision for different type of sensors, sensor with Indicators & Thermometer calibrations.

Technical Specifications

Model	TCAL 1501/ - 40
Display	3.5" true color TFT display with touch screen
Temperature Range	-40 to 50°C
Resolution	0.01°C
Heating & Cooling medium	ETHYLENE GLYCOL HOCH ₂ CH ₂ OH purity 99% (3litres) + Pure distilled water (1.5 litres) for range from - 40 to 50 °C
Liquid Capacity	5 Liters (approx.)
Stability	$\pm 0.05^\circ\text{C}$
Uniformity	$\pm 0.2^\circ\text{C}$
Stabilization Time	15 minutes
Heating time	30 mins
Cooling time	60 mins (amb. (25°C to - 40°C) @25°C
Multi hole PP top cover	Provided for test Thermometer or sensor holding
Power supply	230V AC 50/60Hz
Power Consumption	1300 VA
Calibration chamber size	90 W x 120 H x 175 D mm
Overall Dimension	530 x 340 x 670 (L x W x H) (+155mm circulation motor) (Approx.)
Weight	52 kg (without liquid)

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

Standard Delivery

1. Basic Instrument
2. Spare fuses
3. Instruction manual
4. Mains card
5. Top multi hole PP Chamber cover
6. Top SS dummy cover
7. Test certificate

Optional

1. Master SSPRT sensor
2. ISO/IEC 17025 Accredited calibration certificate



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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