

# LIQUID TEMPERATURE CALIBRATION BATH

MODEL : TCAL 1501 / - 80



## INTRODUCTION

SANSEL series TCAL 1501/- 80 is a micro controller based precision “ULTRA 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, thermocouple & RTDs to be calibrated in the bath. Set the temperature from the 4.3 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

- ✓ 4.3 inch True TFT display with touch screen
- ✓ Range from – 80 to - 40°C
- ✓ Micro controller based Linearize
- ✓ Stable to  $\pm 0.03^{\circ}\text{C}$
- ✓ Uniformity  $\pm 0.2^{\circ}\text{C}$
- ✓ High Accuracy
- ✓ Multi hole provision for different type of sensors, Thermometer calibration.
- ✓ NABL Calibration Certificate

## Technical Specifications

Model	TCAL 1501/ - 80
Working Range	-80 to - 40°C
Resolution	0.01°C
Stability	$\pm 0.03^{\circ}\text{C}$
Uniformity	$\pm 0.2^{\circ}\text{C}$
Display	4.3 inch True TFT LCD Display with Touch screen
Bath temperature cool	Digital temperature controller with FUZZY PID
Multi hole well	Provided for different type of sensors , sensor with indicators & Thermometer calibrations
Cooling medium	IPA
Liquid capacity	5 Liters
Power supply	230V AC $\pm 10\%$ / 50Hz (Optional 110V AC)
Testing area	100mm W x 100mm H x 190mm D
Overall Dimension	705 mm x 505 mm x 825 mm (L x W x H)
Weight	80 kg (Approx.)

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



## 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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