

# HIGH TEMPERATURE INFRA RED BLACK BODY CALIBRATOR

MODEL : BCAL 1502



## INTRODUCTION

“SANSEL” Series BCAL 1502 is a Micro controller Based Precision Temperature Calibrators Generates True Reference Temperature. The Temperature Controller of the Calibrators Uses a Auto Tune PID Control Algorithm. Infra red thermometer & online pyrometer calibration is performed by comparison of the temperature measured by UUC and target temperature indicated by the calibrator or using standard pyrometer. Focus the Unit Under Calibration (UUC) to be Calibrate to the target point given in BCAL 1502. Set the Temperature from the Touch screen display. Both True and set Temperature can be read. When Stabilization Occurs, Simply Read the Temperature and re-Calibrate the UUC.

## Applications

- Energy - Production and Energy -Distribution Sectors
- Glass, Ceramic, Semi Conductor Industries
- Steel Material Processing Industries
- Calibration laboratories etc.,.

## FEATURES

- ✓ 4.3 inch True TFT display with Touch screen
- ✓ Range from 500 to 1500°C
- ✓ Micro Controller Based Linearized High Accuracy
- ✓ Resolution 0.1°C
- ✓ Stable to  $\pm 1^\circ\text{C}$
- ✓ Radial uniformity better than  $\pm 1\%$  of reading
- ✓ Portable, Rugged
- ✓ No liquid, safe dry calibration
- ✓ NABL Traceable Calibration Certificate
- ✓ 30 mm Aperture area

## Technical Specifications

Model	BCAL 1502
Display	4.3 inch True TFT LCD Display with Touch screen
Temperature Range	500 to 1500 °C
Resolution	0.1°C
Stability	$\pm 1^\circ\text{C}$
Radial Uniformity	$\pm 1\%$ of reading
Bath Temperature Control	Digital Temperature Controller with Auto Tune PID Algorithm
Temperature readout	°C
Aperture area	30mm
Emissivity	0.950
Power supply	230V AC $\pm 10\%$ / 50Hz (Optional 110V AC)
Power Consumption	4 KVA
Dimension (W*D*H) (Approx.)	580mm W x 450mm D x 390205mm H
Instrument Weight (Approx)	45 kg

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. Traceable calibration certificate
6. Instruction manual

### Optional

1. Carrying case
2. 110V AC 60Hz Power supply



## 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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