

TEMPERATURE CALIBRATOR

HIGH TEMPERATURE INFRA RED BLACK BODY CALIBRATOR (MODEL : BCAL 1202)



Description

"SANSEL" Series BCAL 1202 is a Micro controller Based Precision "BLACK BODY" 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 1202. 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 in

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 1200°C
- Micro Controller Based Linearized High Accuracy
- Resolution 0.1°C
- Stable to $\pm 0.5^\circ\text{C}$
- Accurate better than $\pm 1\%$ of reading
- Portable & Rugged
- No Liquids, Safe dry Calibration
- NABL Traceable Calibration Certificate
- 20 mm Aperture area

Technical Data

MODEL	BCAL 1202
Temperature Range	500 to 1200 °C
Display	4.3 inch True TFT colour display with touch screen
Resolution	0.1 °C
Stability	$\pm 0.5\text{ }^\circ\text{C}$
Accuracy	$\pm 1\%$ of reading
Bath Temperature Control	Digital Temperature Controller with Auto Tune PID Algorithm
Temperature Read Out	°C
Heating Time (to Max)	60 Minutes
Stabilization Time (above 75°C)	30 Minutes
Aperture area	35 mm
Emissivity	0.950
Power Supply	230V AC $\pm 10\%$ / 50Hz (Optional 110V AC)
Power Consumption	2000 VA
Dimension (W*D*H) (Approx.)	380mm W x 445mm D x 205mm H
Instrument Weight (Approx.)	15 Kg

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

Standard Delivery

Basic Instrument Traceable Calibration Certificate
Spare Fuses Instruction Manual
Mains Card

Optional

Carrying Case 110V AC 60Hz Power supply

SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

NABL Accredited Calibration Lab (Thermal, Mechanical, Electro-Technical Parameters)

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