

INFRARED BLACK BODY CALIBRATOR

For IR Thermometer calibration

MODEL : BCAL 1202



INTRODUCTION

SANSEL Model BCAL 1202, Black body Calibrator is used to measure the accuracy and performance of non-contact Thermometers. 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

- ☐ 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
- ✓ No liquids, safe dry calibration
- ✓ Range from 500 to 1200°C
- ✓ Resolution 0.1°C
- ✓ Micro controller based linearized high accuracy
- ✓ 25mm Aperture area
- ✓ Accurate better than $\pm 1\%$ of reading
- ✓ Portable, Rugged
- ✓ NABL traceable calibration certificate

Technical Specifications

| Model | BCAL 1202 |
|-------------------------|---|
| Display | 4.3 inch True TFT LCD Display with Touch screen |
| Temperature Range | 500 to 1200°C |
| Resolution | 0.1°C |
| Stability | $\pm 0.2^\circ\text{C}$ |
| Radial Uniformity | Better than 0.5 % of reading |
| Stabilization Time | 30 minutes |
| Temperature readout | °C |
| Heating time | 60 mins (Amb. to 1200°C) |
| Cooling time | 120 mins (1200 to 100°C) |
| Power supply | 230V AC $\pm 10\%$ / 50Hz (optional 110V AC) |
| Power Consumption | 2200 VA |
| Aperture area | 25mm |
| Emissivity | 0.950 |
| Overall Dimension in mm | 350 x 352 x 210 (L x B x H)(Approx.) |
| Instrument Weight | 12 kg (without carrying case) (Approx.) |

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

Optional

1. Carrying case
2. Master pyrometer with traceability
3. UUC fixing stand



UUC fixing stand



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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