

**CALSYS  
1000BB**



**50 to 1000°C**

## PORTABLE THERMOCOUPLE CALIBRATOR

CALsys 1000BB calibration source is a highly stable standard Black Body Furnace for calibrating noncontact IR thermometer for the wide temperature range of 50 to 1000°C.

The unique feature of this Black Body Furnace is large temperature controlled black body target with a diameter of 29 mm and 150mm which offer large view area for IR Thermometer.

The Emissivity of the target is 0.99 ( $\pm 0.01$ ). The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment.



### SPECIFICATIONS

<b>Temperature Range</b>	: 50 to 1000°C
<b>Temperature Resolution</b>	: 1.0°C
<b>Stability</b>	: $\pm 0.3^\circ\text{C}$ at 50°C $\pm 0.4^\circ\text{C}$ at 500°C $\pm 0.6^\circ\text{C}$ at 1000°C
<b>Emissivity</b>	: 0.99 ( $\pm 0.01$ )
<b>Controlling Sensor</b>	: Precision PT/RH-PT T/C
<b>Method of Control</b>	: Digital self tuned PID Controller
<b>Time to reach max temp</b>	: 1.5 hr
<b>Computer Interface</b>	: RS - 232
<b>Operating Temp</b>	: 20 to 45°C
<b>Power Requirement</b>	: 230VAC, 2.0KW
<b>Dimensions</b>	: 270(H) x 360(W) x 270(D) mm
<b>Radiation Cavity Type</b>	: Silicon Carbide
<b>Cavity Dimension</b>	: 29 mm Dia x 150 mm depth
<b>External Aperture</b>	: 25 mm dia.
<b>Weight</b>	: Approx 15 Kg

### OPTIONAL ACCESSORIES

- Master Pyrometer
- Black Body Cavity.....Part No : EQ3

### KEY FEATURES

- ✓ Wide Operating Range (50 to 1000°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to Use and Cost Effective
- ✓ Sighting Tube

### STANDARD ACCESSORIES

- Reference Standard Thermocouple ('N' Type T/C).....Part No. TTCN-300
- NABL accredited calibration certificate - 3 point
- **Software** - Cal Soft including for setting bath temperature and monitoring the PV. Graphical representations of PV/TIME with 2 hours data logging.
- Operational Manual