

## High Temperature Black Body Furnace

---

### Wide Temperature Range

CALsys 1200BB offer a wide temperature range from 300 °C to 1200 °C

### Simple to use

The CALsys 1200BB block is ideal for Industrial/Laboratory field use. It is simple enough to testing and calibration uses.

### Speed

The Calsys 1200BB extremely quick to reach various temperatures.

### Accuracy and performance

The Calsys 1200BB is an easily portable unit that also provides excellent calibration accuracy with stability  $\pm 0.5^{\circ}\text{C}$  at 1200°C.

### Accredited calibration

Each Calsys 1200BB is delivered with an accredited calibration certificate.

### Computer Interface

The communication port (RS-232) enables communication with selected Calsys 1200BB calibrators for automation calibration and documentation thus it made documentation easy.

## Calsys 1200BB

Highly Accurate Temperature Calibrator For Industrial / Laboratory Field Use

---



Calsys 1200BB offers easy to use blackbody calibrator with high temperature range from 300 to 1200°C. It is a highly stable standard furnace for calibrating pyrometer and non contact sensor. This calibrator can be used on site for high temperature calibration and also find application in pyrometer industry, non contact sensor calibration. the unique feature of this black body furnace is large temperature control black body target with dia of 46mm and 85mm depth which offers large view for IR camera . The temperature of the calibrator is set and controlled by a self tuned PID controller with automatic super fine adjustment. Our newly designed CALsys 1200BB model offers better esthetic design and performance wise upgraded to next level. The emissivity of the target is  $0.99(\pm 0.01)$ .

With the Tempsens make Temperature Calibrator, you have chosen an extremely effective instrument which we hope will live up to all your expectations. This is a fast, timesaving, and reliable true industrial temperature calibrator designed for on-site use.

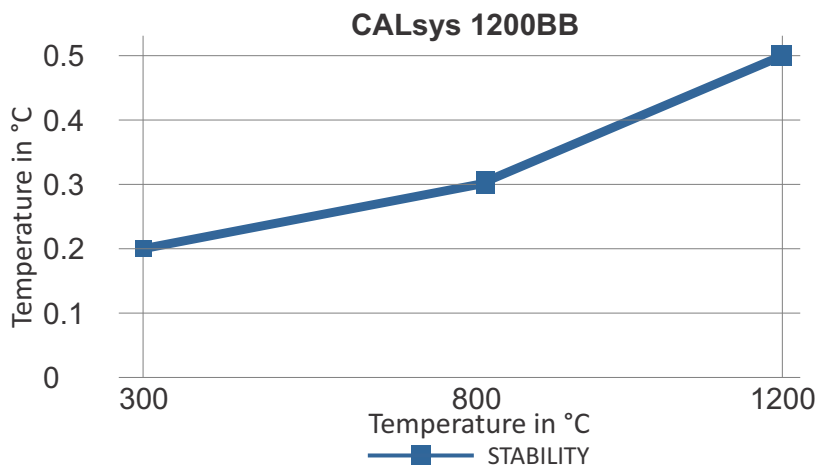
During the past several years, we have acquired extensive knowledge of industrial temperature calibration. This expertise is reflected in our products which are all designed for daily use in an industrial environment.

---

## Specifications

Temperature range	300 °C to 1200 °C
Accuracy	±2 °C
Stability	±0.2°C at 300°C
	±0.3°C at 800°C
	±0.5°C at 1200°C
Cavity type	Silicon carbide
External Aperture	40mm dia
Cavity Diameter	46 mm (85mm depth)
Emissivity	0.98 (±0.02)
Method of Control	Self tuned PID controller
Heating time	1.5 Hrs
Resolution	1 °C
Display	LCD, °C or °F user-selectable
Size (H x W x D)	590(H) x 450(W) x 530(D) mm
Weight	50Kg
Power requirements	230 VAC, 2.5 KW(50 Hz)
Computer interface	RS - 232
Calibration	Accredited calibration certificate provided
Environmental operating conditions	0 °C to 40 °C, 0 % to 90 % RH (non-condensing)
Specifications valid in environmental conditions	13 °C ... 33 °C

## STABILITY OF CALSYS 1200 BB



## Access Opening 1200BB

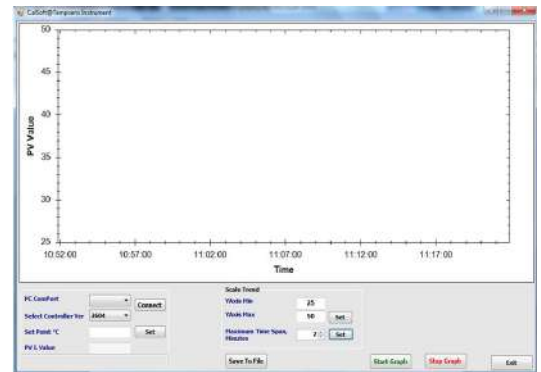
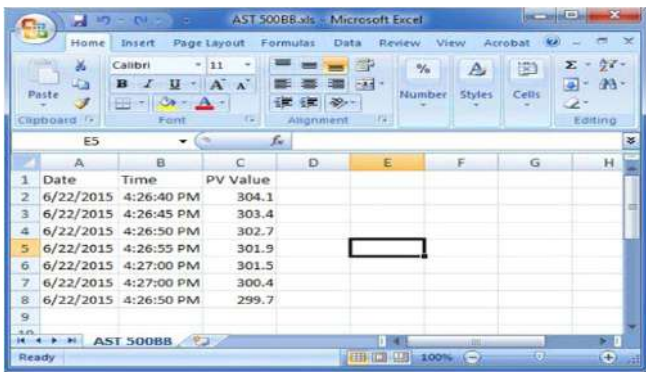
### Blackbody Cavity for CALsys 1200BB models

We use 46mm dia silicon carbide (Radiation cavity type) in CALsys 1200BB. We also offer customized access opening based on Customer requirements.



Silicon Carbide Cavity.

### SOFTWARE



- CalSoft including for setting bath temperature and monitoring the PV. Graphical representations of PV/TIME with 2 hours data logging.

### MASTER SENSOR (OPTIONAL)

Master Pyrometer



- Black Body Cavity.....Part No. Eq3
- NABL accredited calibration certificate - 3 point
- Operational Manual