

Dual Black Body Temperature calibrator



- High Stability
- High Uniformity
- Highly Stable Temperature Calibrator for Industrial Field Uses

Extended Area Black Body

Wide Temperature Range

LBBCH offer a temperature range from -20 °C to 100 °C for Block - I and 50°C to 500°C for Block - II

Large emissive area

LBBCH has the large emitting surface area precise temperature control with good uniformity. It is available in the customize sizes.

High Emissivity

The LBBCH Exceptionally high emissivity of 0.99 ± 0.01 . Extremely quick to reach various temperatures, i.e. heats up room temp to maximum in 15 and 30 minutes. This saves time and increases productivity.

Accuracy and performance

The LBBCH is high stable unit that also provides excellent calibration accuracy with stability $\pm 0.01^\circ\text{C}$ for Block-I and ± 0.1 for Block-II

Easy to use

LBBCH has inbuilt PID controller or can be provided separately that shows real time display of the surface and set temperature

Computer Interface

The communication port (RS232/ USB) enables communication with selected LBBCH calibrators for automation calibration and documentation thus it made documentation easy. Remote control via Ethernet link, Rs232 or USB port.

LBBCH DUAL

Highly Accurate Low Temperature Extended Dual Area Black Body For Industrial / Laboratory Field Use



Extended dual area black body is defined by the large emitting surface area precise temperature control with good uniformity. Tempensens make Blackbodies are state of the art, highly accurate and stable with different standard sizes and temperature ranges. The LBBCH Series Extended dual Area black bodies are low temperature infrared reference sources operating either in absolute or differential mode. This Black body series featuring the very high stability, they are particularly well adapted for the characterization and performance validation of a very wide range of IR Sensors, such as high resolution cameras for Thermography and long range thermal imagers. Essentially the black body emits a known amount of energy for an infinite number of wavelengths. This enables to draw the expected black body radiation curve for a given temperature. Temperature is accurately controlled by High accurate PID self tuning controller.

With the Tempensens make Compact Extended dual Area Black body 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

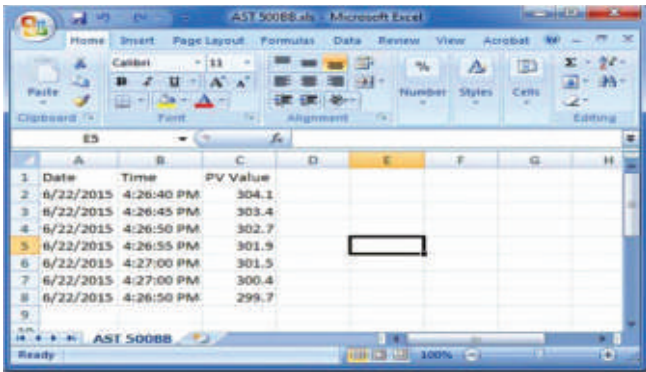
Parameter	Block - I	Block - II
Emissive area	50 x 50 mm	50x50 mm
Temperature range (Standard)	-20°C to 100°C	50°C to 500°C
Emissive area uniformity (1)	±0.20°C @ 50 °C	±0.4°C @ 100°C
Emissivity	0.99±0.01	0.99±0.01
Stability	±0.01°C	±0.1°C
Heating Time	15 Min	30 Min
Cooling Time	20 Min	60 Min (Max to 150°C)
Display resolution	0.01°C	0.1°C
Method of control	Digital self tuned PID Controller	
Head dimensions W x H x D (mm ³)	450(W) X 300(H) X 350(D) mm	
Weight	20 kg	
Max. power consumption	1.5 K W	
Power supply	230 VAC, 1 ph. 50 Hz	
Operating temperature range (head)	5°C to +25°C	

*1 at 80% of emissive area

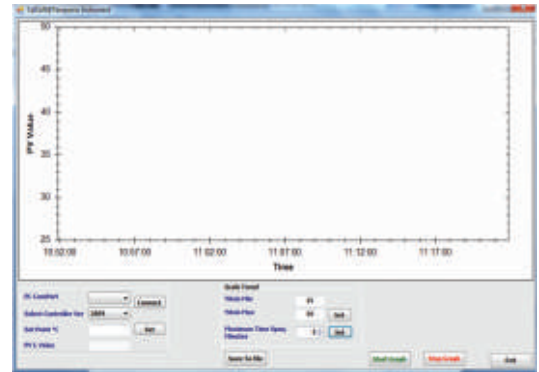
*Tested at (23°C ±2°C)

ACCESSORIES

SOFTWARE



	A	B	C	D	E	F	G	H
1	Date	Time	PV Value					
2	6/22/2015	4:26:40 PM	304.1					
3	6/22/2015	4:26:45 PM	303.4					
4	6/22/2015	4:26:50 PM	302.7					
5	6/22/2015	4:26:55 PM	301.9					
6	6/22/2015	4:27:00 PM	301.5					
7	6/22/2015	4:27:00 PM	300.4					
8	6/22/2015	4:26:50 PM	299.7					
9								



- 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
- NABL accredited calibration certificate - 3 points (Optional)
- Operational Manual



CARRY CASE (OPTIONAL)



- Tempsens makes customized carry case is a rugged, safe perfectly designed to carry our new Extended dual Area Black Body calibrator and different accessories.