



## Black Body BBSL/BBSM/BBSH Calibrator Systems

Portable, Bench-Top , Compact

Ideal for quick Calibration of Non-Contact IR Pyrometers in the field or lab

- Range:  
10°C up to 1200°C
- Accuracy:  
within 0.5% of indicated temperature  
Min. BBSL 1°, BBSM 2°C, BBSH 3°C
- Resolution:  
BBSL, BBSM 0.1°C  
BBSH 1°C
- High Emissivity & Wide Aperture
- Stability:  
BBSL, BBSM ±0.5°C  
BBSH ±1.5°C
- Stabilization Time:  
BBSL, BBSM 20 minutes  
BBSH 15 minutes
- Heating time:  
BBSL, BBSM 45 minutes  
BBSH 60 minutes
- Optional: RS232 PC Interface & Calibration Software
- Calibration Certification Included



Accurate

Auto PID

Cost Effective

Efficient

Fast

Portable

Reliable

Sturdy



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# Black Body BBSL/BBSM/BBSH Calibrator Systems

## Black Body Calibrators

The **BBSL, BBSM, & BBSH** are portable calibration systems that offers fast calibration of Non-Contact IR Pyrometers.

### Stability:

BBSL, BBSM  $\pm 0.5^{\circ}\text{C}$   
BBSH  $\pm 1.5^{\circ}\text{C}$

### Resolution:

BBSL, BBSM:  $0.1^{\circ}\text{C}$   
BBSH:  $1^{\circ}\text{C}$

### Accuracy: (minimum)

$\pm 0.5\%$  of indicated temperature  
BBSL:  $1^{\circ}\text{C}$ , BBSM:  $2^{\circ}\text{C}$ , BBSH:  $3^{\circ}\text{C}$



**BBSL**



**BBSM**

## Applications

The **BBSL, BBSM, & BBSH IR Pyrometer Calibrators** are designed to verify and calibrate Non-Contact IR Pyrometers in the field or in the lab.

### Range:

BBSL  $10^{\circ}$  above amb. to  $350^{\circ}\text{C}$   
BBSM  $20^{\circ}\text{C}$  above amb. to  $600^{\circ}\text{C}$   
BBSH  $500^{\circ}\text{C}$  to  $1200^{\circ}\text{C}$

### Stabilization Time:

BBSL, BBSM: 20 minutes  
BBSH: 15 minutes

### Heating Time: (to max.)

BBSL, BBSM: 45 minutes  
BBSH: 60 minutes (Amb. to  $1200^{\circ}\text{C}$ )

## Black Body BBSL, BBSM, & BBSH Calibrator Specifications

<b>Range:</b>	* See above tabs on right *	* Specifications subject to change *
<b>Resolution:</b>	BBSL, BBSM: $0.1^{\circ}\text{C}$ ; BBSH: $1^{\circ}\text{C}$	<b>Dimensions (WxHxD)</b> BBSL, BBSM: 260 x 305 x 135mm BBSH: 375 x 310 x 150mm
<b>Accuracy:</b>	within 0.5% of indicated temperature	<b>Weight:</b> BBSL, BBSM: 5.5Kg (12.13 lbs) BBSH: 8Kg (17.64 lbs.)
<b>BBSL Range:</b>	$10^{\circ}\text{C}$ above amb. to $350^{\circ}\text{C}$	<b>Heating Time: (to max.)</b> BBSL, BBSM: 45 minutes BBSH: 60 minutes
<b>BBSM Range:</b>	$20^{\circ}\text{C}$ above amb. to $600^{\circ}\text{C}$	<b>Stabilization Time:</b> BBSL: 20 min. (above $60^{\circ}\text{C}$ ) BBSM: 20 min. (above $70^{\circ}\text{C}$ ) BBSH: 15 minutes
<b>BBSH Range:</b>	$500^{\circ}\text{C}$ to $1200^{\circ}\text{C}$	<b>Aperture Size:</b> 25mm
<b>Temperature Control:</b>	Auto tune PID Control K type 1/2 ANSI T/C	<b>Temperature Readout:</b> $^{\circ}\text{C}$ / $^{\circ}\text{F}$ Selectable
<b>Emissivity:</b>	BBSL, BBSM: 0.97 to 0.98 BBSH: Better than 0.97	
<b>Power Consumption:</b>	BBSL: 500W, BBSM: 750W BBSH: 1,000W	
<b>Warranty:</b>	1 Year Warranty	

## Model No. Ordering Information

**BBSL** - BBSL Black Body Calibrator

**BBSM** - BBSM Black Body Calibrator

**BBSH** - BBSH Black Body Calibrator

-1 120V 50/60Hz US Plug

-2 230V 50/60Hz with Schuko Plug

-3 230V 50/60Hz with UK Plug

-4 230V 50/60Hz with European Plug

Standard Delivery includes: Basic instrument, AC Cable, Manual, and Calibration Certificate

## BBSL, BBSM, BBSH: Accessories

**BBSL-CT** - Contact Thermocouple

**BBSM-CT** - Contact Thermocouple

**BBSH-CT** - Contact Thermocouple

**BBSL-M-CC** - Carrying Case

**BBSH-CC** - Carrying Case

**BBSL-M-H-RS** - RS232 PC Interface

**BBSL-M-H-SW** - Calibration Management Software