

# BBS 1500

## Blackbody Calibration Source



Process Sensors Model BBS1500 blackbody calibration source features a high emissivity of +0.99, fast heat up time and offers a 1" (25mm) aperture.

Delivering a temperature range from 500°C to 1500°C, simply adjust the set point on the precision digital PID controller to any temperature within the specified temperature range.

Upon reaching the user selectable set point temperature, the model BBS1500 will stabilize and produce a temperature reading to within 1°C, assuring high accuracy calibration of non-contact infrared thermometers, thermal imaging camera systems, focal plane array detectors, heat flux meters, spectrophotometers, and optical devices.

TECHNICAL DATA	
Model	BBS 1500
Temperature range	500° to 1500°C
Accuracy*	± 0.3% of reading ±1°C
Temperature Resolution	1 degree
Stability	< 1°C
Aperture Diameter	25mm (1.0")
Emissivity (effective)	+0.99
Cavity	Silicon Carbide
Sensor	Precision platinum thermocouple
Method of Control	Digital self-tuning PID controller
Warm-up Time	30 minutes from ambient to 1200°C
Operating Ambient Temperature	0° to 50°C
Cooling	Fan cooled
Power Requirements	220VAC, 50/60Hz, 3.8 KW (21 amps)
Dimensions (WxHxD)	22" H x 17" W x 19.5" D
Weight	60kg (132 lbs.)
Optional	115 VAC Serial Communication: RS232 or RS485

Radiometrically calibrated

### PROCESS SENSORS CORPORATION

IR Temperature Sales Office: 787 Susquehanna Avenue, Franklin Lakes, NJ USA • Tel: 201-485-8773, 8772 • Fax: 201-485-8770

Corporate Headquarters: 113 Cedar Street, Milford, MA USA • Tel: 508-473-9901 • Fax: 508-473-0715

Global Offices—Sales and Support: United Kingdom, Poland, Malaysia

www.ProcessSensorsIR.com • irtemp@processsensors.com