

The Right Source. The Right Solutions.



TEMPERATURE CALIBRATOR

TECHNICAL DATA



FEATURES

- For calibrating non-contact infrared thermometers up to 500°C (932°F)
- Temperature controlled black-body target with a diameter of 2.25" (57mm)
- Wide field of view to compensate for optical variations in individual infrared thermometers
- Simply set the desired temperature in increments of 0.1°, wait for the calibrator to attain equilibrium, point the infrared thermometer at the target, and measure the radiated energy
- Contact RTD reference well is located directly behind the blackbody target to assure even higher accuracies of ±0.1°C

ORDERING INFORMATION

BX-500 Infrared Temperature Calibrator CERTIDW1NIST Calibration Certificate BX-500-NIST......Temperature Calibrator & NIST

SPECIFICATIONS

Temperature Range: 50.0 to 500.0°C (122.0 to 932.0°F) **Resolution:** 0.1°C (0.1°F)

Accuracy: ±0.8°C (±1.6°F): ≤100°C (212°F); ±1.6°C (±3.2°F): 100 to ≤200°C (212 to 392°F); ±2.8°C (±5.6°F): 200 to ≤500°C (392 to ≤932°F) Stability: ±0.1°C (±0.2°F): ≤100°C (212°F);

 $\pm 0.2^{\circ}C$ ($\pm 0.4^{\circ}F$): 100 to $\leq 350^{\circ}C$ (212 to 662°F); $\pm 0.4^{\circ}C$ ($\pm 0.8^{\circ}F$): 350 to $\leq 500^{\circ}C$ (662 to $\leq 932^{\circ}F$)

Target Emissivity: Fixed at 0.95

Cooling Time: 45 minutes to 100°C (122°F)

Heating Time: 40 minutes to maximum

Aperture Diameter: 57mm

Power Supply: 1.25A/110VAC (±10%), 2.5A **Dimensions**: 180 x 114 x 233mm

Dimensions: 180 x 114 x 233mh

Weight: 3 kg

Contact:

Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08820 732-632-6400 support@instrumentation2000.com http://www.instrumentation2000.com