

MODEL 1000 SPECIFICATIONS

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InfraredThermometry.com



Readout	Large 13 mm LCD
Power Source	9V Alkaline Transistor Battery
Scale Temperature Range	0 to 60 °C or 32 to 140 °F
Ambient Operating Range	0 to 60 °C or 32 to 140 °F
Absolute Accuracy	+/- 0.3 °C or +/- 0.5 °F Over Entire Range
Resolution	0.1 °C or 0.1 °F
Repeatability	+/- 0.1 °C or +/- 0.1 °F
Controller Start-Up Equilibration Time	Instantaneous
Iris	N/A
Heating Method	None Assumes the Ambient Temp
Target Configuration	Re-Entrant Concentric Rings
Target Surface	Proprietary High Emissivity (0.98 +/- 0.01) Aluminum Oxide with Special High Emissivity Paint Overall
Warranty	1 Year Limited Warranty on Parts & Labor



NEW PRODUCT: 1000 CALIBRATION SOURCE

- Model 1000 Portable Calibration Source for Field Use
- Do-it-Yourself Recalibration of any Infrared Thermometer & Sensor
- Ideal Black Body Concentric Disk Radiator
- Accuracy +/- 0.1C
- ASTM Compliance & NIST Traceability
- Portable, Accurate, Lightweight & Easy To Use

No matter what low-temperature infrared thermometer you have, you can quickly and accurately check its calibration in the field or laboratory with Everest Interscience's calibration sources. They are small, hand-held, self-contained, portable units that check the precision of your infrared thermometers.

Turn the calibration source on, set the Emissivity Control to .98 on the infrared thermometer and aim the instrument at the specially treated target, holding it 1-6 inches from the target. Compare the reading on the target's liquid crystal display to the readout of the infrared thermometer.

If you are using an Everest infrared thermometer, recalibrate the instrument yourself, if necessary, by following the instructions in your operator's manual. For model manufactured by other companies follow the instructions regarding servicing and recalibration of your instrument if it is reading incorrectly.

POWER ON/OFF

To turn the calibration source on, use the toggle switch on the left hand side of the source. The temperature of the detector in the center of the blackbody will register on the liquid crystal display.

MODE SELECTION

Using the toggle switch on the right hand side of the instrument, choose either °F for Fahrenheit or °C for Centigrade.

VERIFYING ACCURACY

Place a mercury thermometer in the hole which is positioned on the top of the blackbody circular target and verify that the temperature corresponds with in plus or minus .2° with the temperature being read out on the calibration source. Keep in mind that the calibration source and thermometer will need to equilibrate for approximately 20 minutes before the verification can be made.

BLACKBODY CONFIGURATION

The blackbody surface has been prepared using proprietary high emissivity aluminum oxide, with a configuration that uses re-entrant concentric rings.

POWER SOURCE

The source of power for the Model 1000 Calibration Source is a 9-volt alkaline transistor battery. This battery provides 100 hours of continuous operation.

BATTERY REPLACEMENT

In order to replace the battery on your calibration source, simply remove the four screws that are holding the back to the front of the calibration source. Remove the 9-volt battery and replace it with a new battery.