

# Infrared Calibration Source

## APPLICATIONS

Calibration source for  
1003ZL and 6110.4ZL  
Infrared Thermometers

## SPECIFICATIONS

**Readout:** Large 13mm LCD

**Power Source:** 9V Alkaline  
battery

**Scale Temperature Range:** 0  
to 60°C

**Ambient Operating Range:** 0  
to 60°C

**Absolute Accuracy:**  $\pm 0.3^{\circ}\text{C}$   
over entire range

**Resolution:**  $0.1^{\circ}\text{C}$

**Repeatability:**  $\pm 0.1^{\circ}\text{C}$

**Controller start-up  
Equilibration time:**  
Instantaneous

**Heating method:** None:  
assumes the ambient  
temperature

**Target configuration:** Re-  
entrant Concentric Rings

**Target Surface:** Proprietary  
high emissivity ( $0.98\pm 0.01$ )  
aluminium oxide with special  
high-emissivity paint overall

**Warranty:** One year limited  
warranty on parts and labour

## Model 1000

The **Model 1000** calibration source is used to check and verify the temperature reading of the low temperature, portable infrared thermometers. The Model 1000 calibration source is held in ambient air temperature and has a thermistor immediately under the surface of the target. The calibration source is held in stable temperature conditions as you would typically find in a laboratory room.

This calibration source is designed as either a quick check of the hand held infrared thermometer or by using it in a range of stable temperature environments a very detailed and specific recalibration of the low temperature infrared thermometer can be undertaken.

The blackbody surface of the instrument has been prepared using proprietary high-emissivity aluminum oxide, with a configuration that uses re-entrant concentric rings. This allows the infrared energy to bounce back and forth between the rings, giving a blackbody surface closest to a perfect configuration as possible.



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