Description

The 7074 is a compact instrument designed for rapid calibration of infrared thermometers. The unit features a 36 mm black body target that provides the optimum reference point size for reliable calibration and verification applications. The target has an emissivity of 0.96 and a special coating that ensures the unit maintains secure and long term performance when used across temperatures.

Features include an intuitive display that allows fast and easy operation. The unit has RS-232 communication and is EasyCal software compatible for control and readback, enabling automated calibration procedures. The 7074 is suitable for use in the both the laboratory or out in the field, and is easily transportable (172 x 72 x1 82 mm, 11.7 kg). It is supplied with a durable aluminium carry case to protect the instrument and the target from dust, dirt and damage.

Specifications

Temperature range......................28 to 400 ℃ / 82 to 752 ℉ (@ 23 ℃ / 73 ℉ ambient temp)

Resolution ....1° or 0.1°, user selectable

Heating time ....28 to 200 ℃ / 82 to 392 ℉ = 2 minutes.
200 to 400 ℃ / 392 to 752 ℉ = 3 minutes.

Cooling time ....400 to 200 ℃ / 752 to 392 ℉ = 9 minutes.
200 to 50 ℃ / 392 to 122 ℉ = 24 minutes.

Stability .... ± 0.3 ℃ / ± 0.54 ℉.

Approximate time to stability ....3 minutes.

Accuracy (incl. emissivity) ....± 0.4 % rdg ± 1 ℃ / ± 0.4 % rdg. ± 1.8 ℉.

Target.. 36 mm (1.4 ") diameter.

Interfaces ....RS-232 (EasyCal compatible).

Environmental...Operating temperature: 0 to 40 ℃ (32 to 104 ℉).
Storage temperature: -20 to 50 ℃ (-4 to 122 ℉).
Humidity: 0 to 90 % RH.

Mains Supply ....Voltage: 115 V AC to 230 V AC / 45 to 65 Hz.
Max Power Consumption: 350 W.

Dimensions...................................... L 172 x W 72 x H 182 mm (6.8 × 2.8 × 7.2 ").

Weight... 1.7 kg (3.7 lb).

Supplied with ....Aluminium carry case and calibration certificate.

Features

- For calibrating IR thermometers

- 28 to 400 ℃ (82 to 752℉)

- Simple operation and intuitive display

- Accuracy ± 0.4 % rdg ± 1 ℃ incl. emissivity

- Stability indicator

- Programmable auto stepping

- Compact for lab & field use

- EasyCal software compatible (RS-232)

- 36 mm black body target

Ordering Information

7074 ....**Infrared Temperature Calibrator**

ECFL ....EasyCal Calibration Software