

BLACKBODY TEMPERATURE CALIBRATION SOURCE CSEC-IR

Features

- An economy temperature calibration source using blackbody radiation
- 3.5mm hole allows for temperature probes to be inserted in order to calibrate thermometers of all kinds
- PID controller with a platinum film sensor for reliable, accurate operation
- Ideal for compliance with quality standards such as ISO9001 and HACCP
- Compatible with Eurolec Reference Thermometers such as the RT162 & PC Temp RT2
- Temperature range of 35°C below ambient temperature up to 85°C.

Cost-effective, accurate calibration of probe thermometers

Accurate temperature measurements are essential if you need to meet quality standards, regulations or guidelines such as HACCP or ISO 9001.

Ensuring that your thermometers are reading accurately is an essential part of this process and using a reference calibration source can help you achieve this.

The CSEC-IR is an cost-effective temperature calibration source that uses blackbody radiation and is available in provides an accurate and stable temperature output.

The CSEC-IR is ideal for the calibration of probe thermometers, with a 3.5mm hole located at the top of the instrument.



The CSEC-IR has a range of between 35°C below ambient and 85°C, making it ideal for environments that rely on critical temperature measurements, such as in food production and scientific laboratories.

Where an additional level of verification is required, an external reference thermometer such as the Eurolec RT162 or PC Temp RT2 can be used to provide precision reference temperature readings to a resolution of 0.01°C.

These reference thermometers can be used to calibrate infrared thermometers, such as the IR151 and IR Med. Simply use the calibration source with one of the reference thermometers mentioned above, and use the reading provided as a guide to calibrate your infrared thermometer.

Using a reference thermometer with a calibration source

Where the very highest level of precision and accuracy is demanded, the temperature output of the calibration source can be verified using an external reference thermometer.

This additional level can be essential where calibration is to be carried out over an extended temperature range.

The CSEC-IR can be used with an external reference thermometer, such as the Eurolec RT162 or PC Temp RT2, to provide a complete reference, verification and calibration system.

Ordering Information

Ordering Codes

The product code shown below detail the standard product ordering code and the specification for this product.

Mains Power Cable

All of the CSEC Series are supplied with a UK/Ireland 3 Pin IEC Mains Cable as standard.

An EU or US Style cable can be specified if required.

Reference Thermometer

A reference thermometer can be ordered with the calibration sources to build a complete temperature calibration system.

The RT162 Benchtop Reference Thermometer or the PC Temp RT2 Handheld Thermometer are ideal for this application and can be ordered alongside the calibration source.

Technical Information CSEC-IR Economy Temperature Calibration Source

SPECIFICATION	CSEC-IR
Range	35.0°C below ambient to +85.0°C
Resolution	0.1°C
Emissivity	Better than 0.99
Cavity	Diameter 30mm Depth 45mm
Accuracy	± 0.2°C ± 1 Digit
Stability	Better than 0.03°C
Power Supply	110VAC to 220VAC
Operating Temperature	+5°C to +40°C
Weight	2.7kg
Dimensions	172mm x 164mm x 130mm

SPECIFICATION	CSEC-IR
Heating Time (Fan Assisted)	20°C to 60°C, 6 mins
Cooling Time (Fan Assisted)	20°C to 0°C, 7 mins
Hole Size (For Reference Thermometer)	3.5mm

Eurolec Instruments Ltd.

Technology House
Cluan Enda
Dundalk
Co. Louth
A91 HY51
Ireland

Tel: +353 (0)42 9333423 / 0845 370 4321 (UK)
Email: sales@eurolec-instruments.com
Web: www.eurolec-instruments.com