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## CS SERIES TEMPERATURE CALIBRATION SOURCES/RT161 REFERENCE THERMOMETER

A simple to use, cost effective system for on site/laboratory calibration of **both** contact and non-contact (infrared) thermometers, to adhere to quality standards such as ISO9000 and HACCP.



CS172, RT161 and TH104PTC portable thermometer

The CS Series comprises of two dry block “black body” sources for calibration with a temperature control system and a pocket for the reference thermometer - Model RT161. This bench mounted thermometer uses a platinum film sensor and sophisticated linearising techniques to obtain highly accurate results and 0.01 °C resolution. This may be used in high accuracy applications and as a reference to check the accuracy of other thermometers.

**Probe access at rear of CS171/CS172: 2 X 3.5mm, 2 X 5.5mm, 1 X 8.5mm & 1 X 2.0mm**  
**Black Body Dimensions: depth 73mm; diameter 32mm**

(Other probe diameters may be available – please enquire)

Specification	CS171	CS172	RT161
Range	+ 30.0 to + 200.0 °C	40°C below ambient to +75°C	- 35.00 to + 199.99 °C
Sensor Type	Platinum film	Platinum film	Platinum film
Resolution	0.1 °C	0.1 °C	0.01 °C
Accuracy (with RT 161)	± 0.1 °C	± 0.1 °C	Thermometer: ±0.02°C ±0.01% Probe: ±0.03°C ±0.07%
Emissivity	> 0.95	> 0.95	N/A
Stability	Better than 0.03 °C	Better than 0.03 °C	N/A
Power supply	220V AC *	220V AC *	9 Vdc

\* UK 3 pin plug to IEC mains cable supplied as standard.

OPTIONAL ACCESSORIES for RT161: • **Mains Adapter** • **System Calibration Certificate - traceable to National Standards**

**Contact the sales department and ask for information on complementary instrumentation from Eurolec.**  
**Eg. Portable thermometers (contact and infrared), manometers and multimeter temperature/pressure probes. Other parameters include %RH, air velocity, pH, light, sound, rpm. Data logging/portable options available.**

Eurolec Instrumentation Ltd are continuously developing and improving their products and as such the company reserve the right to amend specifications without notice and supply products which differ from those described.