



Eurolec Instrumentation Ltd

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CS SERIES TEMPERATURE CALIBRATION SOURCES

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.



CS174 with RT162 & PC Temp PT2 portable thermometers
CS Series Dimensions (l x w x h) 196 x 174 x 179mm



CS174-IN version rear view showing removable insert
CS174 front view with black body cover removed

- The CS Series comprises of three dry block calibration sources with "black body" for infrared thermometers & holes for probe thermometers. The units utilise a temperature control system and also feature a pocket for a reference thermometer.
- Model CS173 features a range of +30.0 to +200.0°C and models CS174 & CS175 feature a range of 40°C below the ambient temperature (approx. -20.0°C) to +85.0°C. All models display temperature in °C or °F and include RS232 output as standard and option for USB.
- The CS174 & CS175 are also available with removable inserts – supplied with one insert with standard holes and one "blank" to be configured as required. Use reference CS174-IN & CS175-IN.
- Standard probe hole dimensions: 1 x 2.0mm; 3 x 3.50 mm; 2 x 5.50 mm; 1 x 8.50 mm; depth 77mm. Black body dimensions 73mm x Ø 32mm.
- Calibration certificate traceable to national standards is supplied with all models. Key switch operated precision accuracy check function (PAC) available as an optional extra.

| Specification (Ambient 25°C) | CS173 | CS174/CS174-IN* | CS175/CS175-IN* |
|---------------------------------|----------------------|---------------------------------|---------------------------------|
| Range | + 30.0 to + 200.0 °C | 40.0°C below ambient to +85.0°C | 40.0°C below ambient to +85.0°C |
| Resolution | 0.1 °C | 0.1°C | 0.01°C |
| Accuracy | ± 0.2 °C ± 1 Digit | ± 0.2 °C ± 1 Digit | ± 0.05 °C ± 1 Digit |
| Emissivity | > 0.95 | > 0.95 | > 0.95 |
| Stability | Better than 0.03 °C | Better than 0.03 °C | Better than 0.03 °C |
| Heating time (typical) | 30 to 150°C, 15 mins | 20 to 60°C, 6 mins | 20 to 60°C, 6 mins |
| Cooling time (typical) | Non-forced | 20 to 0°C, 7 mins | 20 to 0°C, 7 mins |
| Power supply | 110V or 220 VAC | 100V to 240 VAC | 100V to 240 VAC |
| Operating temp. | 0 - 50°C | 0 - 50°C | 0 - 50°C |
| Weight (instrument) | 4 Kg | 4.2 Kg | 4.2 Kg |

***Includes: 1 x removable insert with standard probe holes & 1 x solid non-drilled insert**

UK 3 pin plug to IEC mains cable supplied as standard. Continental two pin plug available – please specify when ordering

Contact the sales dept and ask for information on complementary instrumentation e.g. probe thermometers, infrared thermometers, manometers, data loggers, relative humidity, anemometers...

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.