

DIAS CS 500

Infrared Calibration Source/Black Body



The **infrared radiation source CS 500** is well suited for calibration and examination of infrared radiation thermometers in the temperature range from **50 °C to 500 °C**.

Its execution as an extended area radiator results in a compact portable device with a large aperture and a total emissivity of 97 percent. A serial interface RS485 enables the control of the radiator with PC. Digital PID controller and precision platinum resistance thermometer Pt100 provide excellent accuracy and stability.

Technical data

Type	CS 500
Temperature range	50 °C to 500 °C
Aperture diameter	60 mm
Emissivity	0.97 ± 0.01
Uncertainty	± 1 K ± 0.003 · T [°C]
Stability	0.2 K
Heat up time	30 min
Temperature sensor	Pt100 Class A
Controller	PID
Interface	RS485
Dimensions	240 mm × 310 mm × 310 mm
Weight	appr. 8 kg
Power supply	230 V AC, 500 VA

Technical details are subject to change without notice. March 2009.