

PYROTHERM CCS 3-130

Compact infrared calibration source/black body

Overview



Description

The calibration source PYROTHERM CCS 3-130 is used to calibrate and check infrared cameras and pyrometers, especially during on-site service. It includes three separate radiator surfaces. The temperatures of each radiator surface can be adjusted between 30 °C and 130 °C. A robust housing enables use even in harsh environments. The radiator surfaces have a high emissivity of 0.98. Precise temperature control guarantees high accuracy and stability of the device.

Technical data

Radiator temperature	30 °C to 130 °C each (adjustable in steps of 1 °C, factory-set)
Aperture diameter	55 mm each
Emissivity ¹	0.98 ± 0.01
Measurement uncertainty ¹	0.5 K
Reproducibility	0.2 K
Control stability	0,2 K
Controler	PID
Heat up time	between 5 and 20 minutes
Control LEDs	for each radiator surface: target temperature reached (Green) or not reached yet (Red)
Connections	– Hollow plug socket 5.5 x 2.5 mm for connection to the power supply – Three service interfaces (1x per radiator surface)
Operating temperature	0 °C to 40 °C ²
Storage temperature	–20 °C to 70 °C
Dimensions W × H × D	approx. 200 × 230 × 183 [mm], without handle
Weight	approx. 6.7 kg
Power supply	24 V DC, 3 A

¹ For 8 µm to 14 µm. ² Maximum operating temperature for radiator temperature < 45 °C: Radiator temperature minus 5 °C.