

PYROTHERM CS 400

Infrared calibration source/black body

Overview



Description

The two-piece infrared calibration source PYROTHERM CS 400 is well suited for calibration and examination of infrared radiation thermometers in the temperature range from 50 °C to 400 °C.

It consists of the radiating unit and the controller unit, connected with two cables. The total emissivity of the blackened surface is 97 percent. Digital PID controller and precision platinum resistance thermometer Pt100 provide excellent accuracy and stability.

Technical data

Type	PYROTHERM CS 400
Temperature range	50 °C to 400 °C ¹
Aperture diameter	30 mm
Emissivity	0.97 ± 0.01
Uncertainty	± 2 K · T [°C]
Control stability	0.5 K
Heat up time	30 min
Temperature sensor	Pt100 Class A
Output	Status output (relay)
Input	Set point activation (logic input for floating contact)
Controller	PID
Dimensions	Source unit: 120 mm × 122 mm × 90 mm, Control unit: 235 mm × 140 mm × 350 mm
Weight	Source unit: appr. 1 kg, Control unit: appr. 3 kg
Power supply	115/230 V AC, 200 VA

¹ Specifications for ambient temperature 23 °C