

PYROTHERM CS 110

Infrared calibration source/black body

Overview



Description

The infrared calibration sources PYROTHERM CS 110 is well suited for calibration and examination of infrared radiation thermometers and infrared cameras in the temperature range from -15 °C to 110 °C .

A serial interface RS-485 (optional USB adapter) enables the control of the black body with PC. Digital PID controller and precision platinum resistance thermometer Pt100 provide excellent accuracy and stability. Optional dry air or nitrogen flushing unit reduces condensation at low operating temperatures.

Technical data

Type	PYROTHERM CS 110
Temperature range	-15 °C to 110 °C ¹
Aperture diameter	50 mm
Emissivity	$0.98 \pm 0,01$
Uncertainty	$\pm 0.5\text{ K} \cdot T$ [°C]
Control stability	0.2 K
Display resolution	0.1 K
Heat up time	8 min
Temperature sensor	Pt100 Class A
Controller	PID
Interface	RS-485 (optional USB adapter)
Dimensions	300 mm × 205 mm × 350 mm
Weight	appr. 10 kg
Power supply	115/230 V AC, 200 VA

¹ Specifications for ambient temperature 23 °C