

PYROTHERM CS 400/CS 400-M1

Infrared calibration source/black body

Overview



Description

The two-piece infrared calibration source PYROTHERM CS 400 is used for calibration and examination of infrared radiation thermometers and infrared cameras 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 approximately 97 percent. Digital PID controller and precision platinum resistance thermometer Pt100 provide excellent accuracy and stability.

Technical data

Type	PYROTHERM CS 400	PYROTHERMn CS 400-M1
Temperature range ¹	50 °C to 400 °C	50 °C to 530 °C (short-term)
Part number	0901A10008	0901A10018
Aperture diameter	30 mm	
Emissivity ²	0.97 ± 0.01	
Uncertainty ²	2 K	
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. ² At 8 µm to 14 µm wavelength.