Infrared calibrator Model CTI5000

WIKA data sheet CT 41.42







for further approvals see page 2

Applications

- Testing and calibration of non-contact temperature measuring instruments
- Heating source for on-site laboratories for the calibration of infrared thermometers
- Also suitable for on-site calibration



- Testing of infrared thermometers across a wide temperature range; 50 ... 500 °C (122 ... 932 °F)
- Large surface area of the black body (Ø 57 mm / 2.24 in) for all types of pyrometers
- Bore to accept a reference sensor
- Low weight and compact design
- Simple operation



Infrared calibrator, model CTI5000

Description

Aim - shoot - test

For the calibration of infrared thermometers above ambient temperature, the model CTI5000 is suitable up to 500 °C (932 °F). Due to its stability, the new portable infrared calibrator is particularly suited to the calibration of infrared hand-held thermometers.

The black body has a large diameter so that a wide variety of infrared thermometers can be tested, no matter which lenses are fitted.

The emissivity is fixed at 0.95 and the temperature can be controlled in steps of 0.1 °C.

To check the black body, there is a bore located directly behind the surface so that the measurement can be made with contact and the quality monitored.



Specifications Model CTI5000

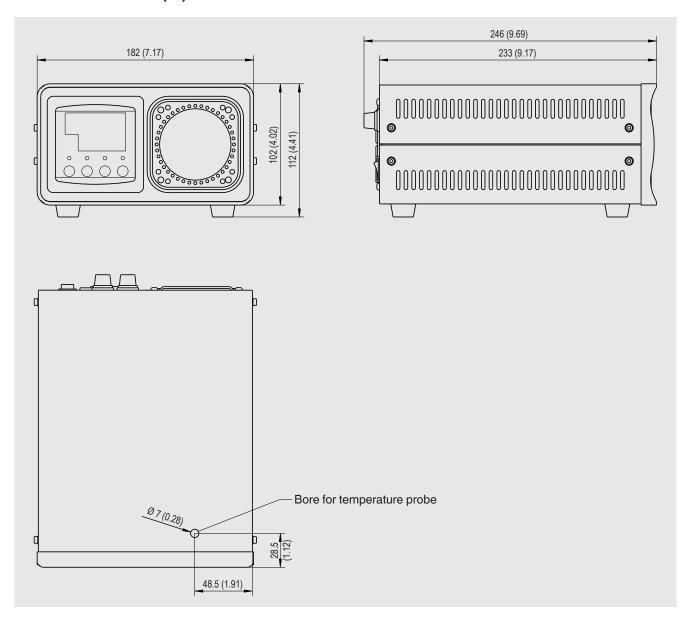
Infrared calibrator		
Indication		
Application range	50 500 °C (122 932 °F)	
Stability	±0.1 K to 100 °C (212 °F) ±0.2 K to 350 °C (662 °F) ±0.4 K to 500 °C (932 °F)	
Resolution	0.1 K	
Temperature control		
Heating time	30 min from T _{amb.} to 500 °C (T _{amb.} to 932 °F)	
Cooling time	40 min from 500 °C to 100 °C (from 932 °F to 212 °F)	
Stabilisation time	approx. 15 20 min	
Measuring surface		
Emissivity	0.95	
Diameter of the measuring surface	57 mm (2.24 in)	
Permissible ambient conditions		
Relative humidity	35 85 % r. h. (non-condensing)	
Operating temperature	5 35 °C (41 95 °F)	
Voltage supply		
Power supply	AC 230 V, 50/60 Hz	
Power consumption	275 VA	
Case		
Dimensions (W x D x H)	190 x 248 x 113 mm (7.5 x 9.8 x 4.5 in)	
Weight	2.1 kg (4.6 lbs)	

Approvals

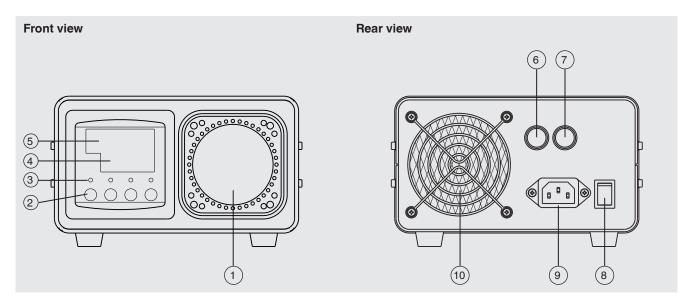
Logo	Description	Country
CE	EU declaration of conformity ■ EMC directive ■ Low voltage directive ■ RoHS directive	European Union
ERE	EAC ■ EMC directive ■ Low voltage directive	Eurasian Economic Community
-	MTSCHS Permission for commissioning	Kazakhstan
(BelGIM Metrology, measurement technology	Belarus
	Uzstandard Metrology, measurement technology	Uzbekistan

Approvals and certificates, see website

Dimensions in mm (in)



Controls



- (1) Measuring surface
- (2) Control panel
- (3) Status LED's
- (4) Indication of the currently-selected set temperature
- (5) Indication of the current block temperature

- 6 Fuse for the heating
- 7 Fuse for the control
- (8) ON/OFF switch
- 9 Mains connection socket
- (10) Fan

Scope of delivery

- Infrared calibrator model CTI5000
- Operating instructions
- Power cord

Ordering information

Model / Mains voltage / Further approvals / Additional ordering information

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The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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