# Infrared calibrator Model CTI5000

WIKA data sheet CT 41.42







for further approvals

### **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

## **Special features**

- 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				
50 500 °C (122 932 °F)				
±0.1 K to 100 °C (212 °F) ±0.2 K to 350 °C (662 °F) ±0.4 K to 500 °C (932 °F)				
0.1 K				
Temperature control				
30 min from $T_{amb.}$ to 500 °C ( $T_{amb.}$ to 932 °F)				
40 min from 500 °C to 100 °C (from 932 °F to 212 °F)				
approx. 15 20 min				
Measuring surface				
0.95				
57 mm (2.24 in)				
Permissible ambient conditions				
35 85 % r. h. (non-condensing)				
5 35 °C (41 95 °F)				
Voltage supply				
AC 230 V, 50/60 Hz				
275 VA				
Case				
190 x 248 x 113 mm (7.5 x 9.8 x 4.5)				
2.1 kg (4.6 lbs)				

# **Approvals**

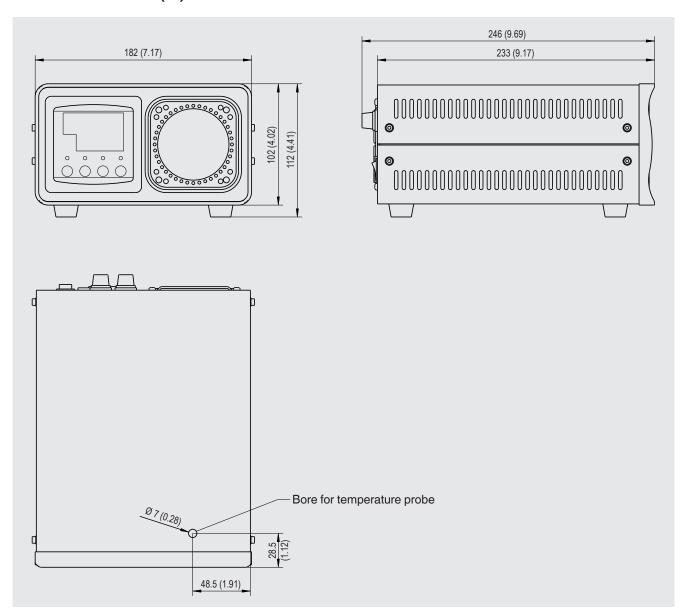
Logo	Description	Country
C€	EC declaration of conformity ■ EMC directive 2004/108/EC ■ Low voltage directive 2006/95/EC	European Community
EAC	EAC ■ Electromagnetic compatibility ■ Low voltage directive	Eurasian Economic Community
6	KazInMetr Metrology, measurement technology	Kazakhstan
	MTSchS Permission for commissioning	Kazakhstan
<b>(</b>	BelGIM Metrology, measurement technology	Belarus
	Uzstandard Metrology, measurement technology	Uzbekistan

# Certificates

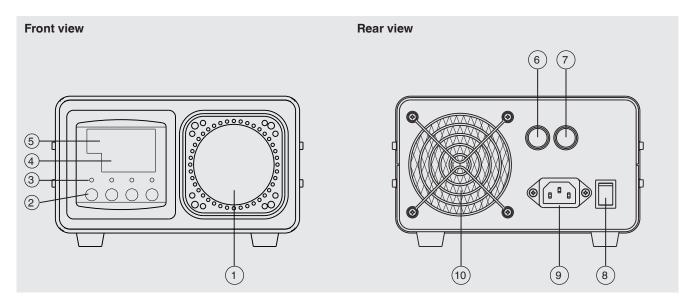
Certificate	
Calibration	Standard: 3.1 calibration certificate per DIN EN 10204 Option: DKD/DAkkS calibration certificate
Recommended recalibration interval	1 year (dependent on conditions of use)

Approvals and certificates, see website

# Dimensions in mm (in)



#### **Controls**



- (1) Measuring surface
- (2) Control panel
- (3) Status LED's
- (4) Currently selected set point
- (5) 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 / Additional ordering information

© 2009 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.

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.

Page 4 of 4

WIKA data sheet CT 41.42 · 09/2015



WIKA Alexander Wiegand SE & Co. KG Alexander-Wiegand-Straße 30

63911 Klingenberg/Germany Tel. +49 9372 132-0 Fax +49 9372 132-406

info@wika.de www.wika.de