

Infrared calibrator Model CTI5000

WIKA data sheet CT 41.42

Applications

- Testing and calibration of non-contact temperature measuring instruments
- Heating source for works 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)
- Large surface area of the black body (Ø 57 mm) for all types of pyrometers
- Bore to accept a reference sensor
- Low weight and compact design
- Simple operation



Infrared calibrator, model CTI5000

Description

Target – shoot – test

For the calibration of infrared thermometers above ambient temperature, the model CTI5000 is suitable up to 500 °C. 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.

Versatile operation

Whether you operate portable or stationary infrared thermometers, you should use the new model CTI5000 infrared calibrator to test your thermometers.

You will not find a more compact infrared calibrator for your application than model CTI5000.

Specifications

Model CTI5000

Infrared calibrator

Application range	50 ... 500 °C
Stability	±0.1 K up to 100 °C ±0.2 K up to 350 °C ±0.4 K up to 500 °C
Heating time	30 min
Cooling time 1)	30 min
Emissivity	0.95
Diameter of the measuring surface	57 mm
Voltage supply	
Power supply	AC 230 V
Case	
Dimension, W x D x H	180 x 233 x 114 mm
Weight	2.7 kg

1) from 500 °C to 100 °C

CE conformity

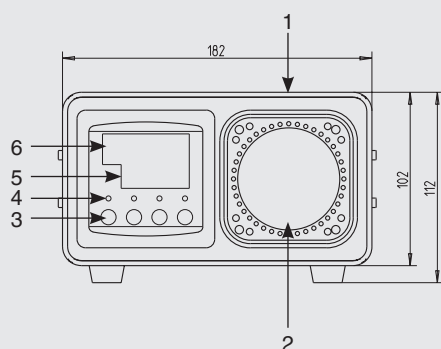
CE conformity

EMC directive	2004/108/EC, EN 61326 emission (group 1, class B) and interference immunity (portable test and measuring equipment)
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Approvals and certificates, see website

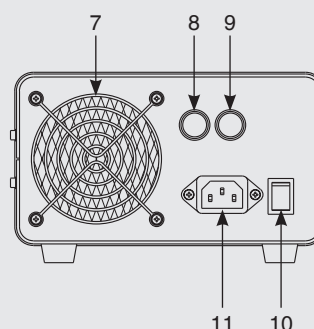
Controls

Front view



- 1 Bore for reference sensor
- 2 Measuring surface
- 3 Control panel
- 4 Status LED's
- 5 Currently selected set point
- 6 Current block temperature

Rear view



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

Scope of delivery

- Infrared calibrator model CTI5000
- Operating instructions
- Power cord

Ordering information

Model / Mains voltage / Additional order 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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