

Infrared Calibrator Model CTI5000

WIKA Data Sheet CT 41.42

Applications

- Testing and calibration of non-contact temperature measuring instruments
- Reference instrument for works' laboratories for the calibration of infrared thermometers
- On-site calibration

Special Features

- Testing infrared thermometers over a wide temperature range (50 °C ... 500 °C)
- Large black-body surface area (57 mm) for all types of pyrometer
- Bore for insertion of reference sensor
- Low weight and compact design
- Simple operation



Infrared Calibrator Model CTI5000

Description

Target – shoot - check

For the calibration of infrared thermometers above ambient temperatures, the CTI5000 is suitable up to 500 °C. With its accuracy and stability, the new portable infrared calibrator is, above all, suited to calibrating infrared handheld thermometers.

The black body has a large diameter, so that a wide range of infrared thermometers, whatever optics are fitted, can be tested.

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

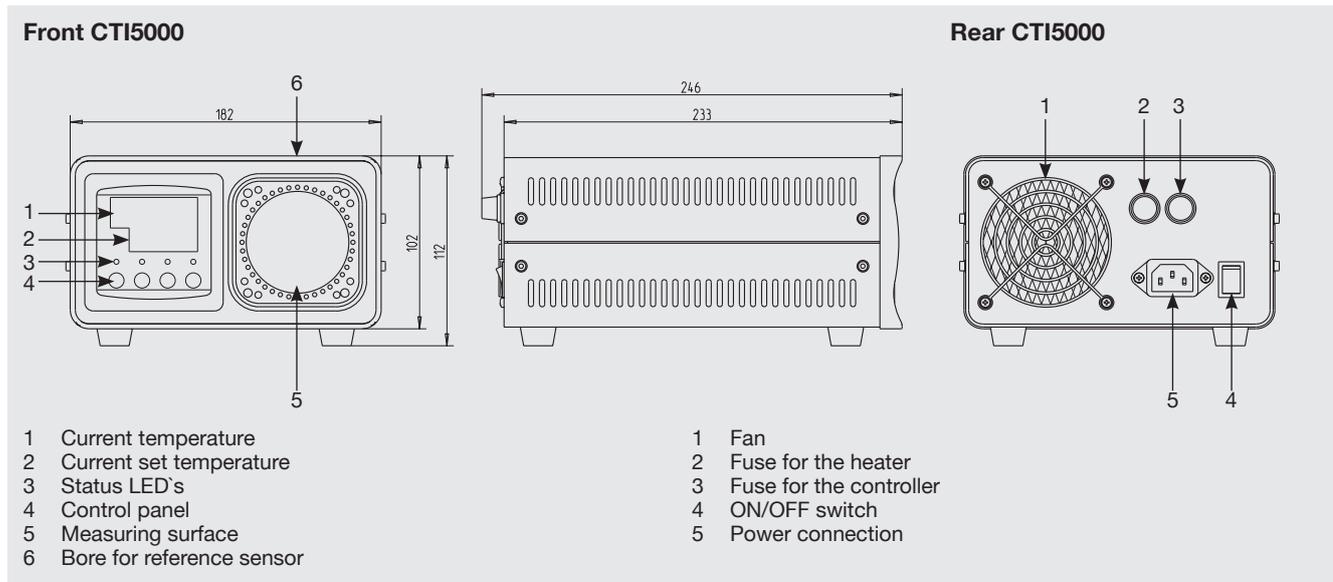
To check the black body itself, a bore is located directly behind the surface, so that a contact measurement can monitor the quality.

Multifunctional

As well as being used for portable or stationary infrared thermometers, you can use the new model CTI5000 infrared calibrator to check your thermometers.

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

Controls



Specifications		Model CTI5000
Range	°C	50 ... 500
Accuracy		± 0.8 K up to 100 °C ± 1.6 K up to 200 °C ± 2.8 K up to 500 °C
Stability		± 0.1 K up to 100 °C ± 0.2 K up to 350 °C ± 0.4 K up to 500 °C
Warm-up time	min	30
Cooling time ¹⁾	min	30
Emissivity		0.95
Diameter of the measuring surface	mm	57
Power supply	V AC	230
Dimension, W x D x H	mm	180 x 233 x 114
Weight	kg	2.7

1) from 500°C to 100°C

Products and Services within our Calibration Technology Program

- DKD calibration services for pressure
- Repair of calibration units of all makes
- Portable pressure measuring devices for testing and calibration tasks
- Precision pressure measuring units and pressure controllers
- Primary standards for pressure
- Testing technology system solutions
- DKD calibration services for temperature
- Temperature dry well calibrators
- Calibration baths and furnaces
- Temperature measuring instruments for testing and calibrating tasks
- Precision thermometers
- Primary standards for temperature
- Consulting and training

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

