Infrared calibrator
Model CTI5000

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

Infrared calibrator, model CTI5000

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

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.

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Specifications
Model CTI5000

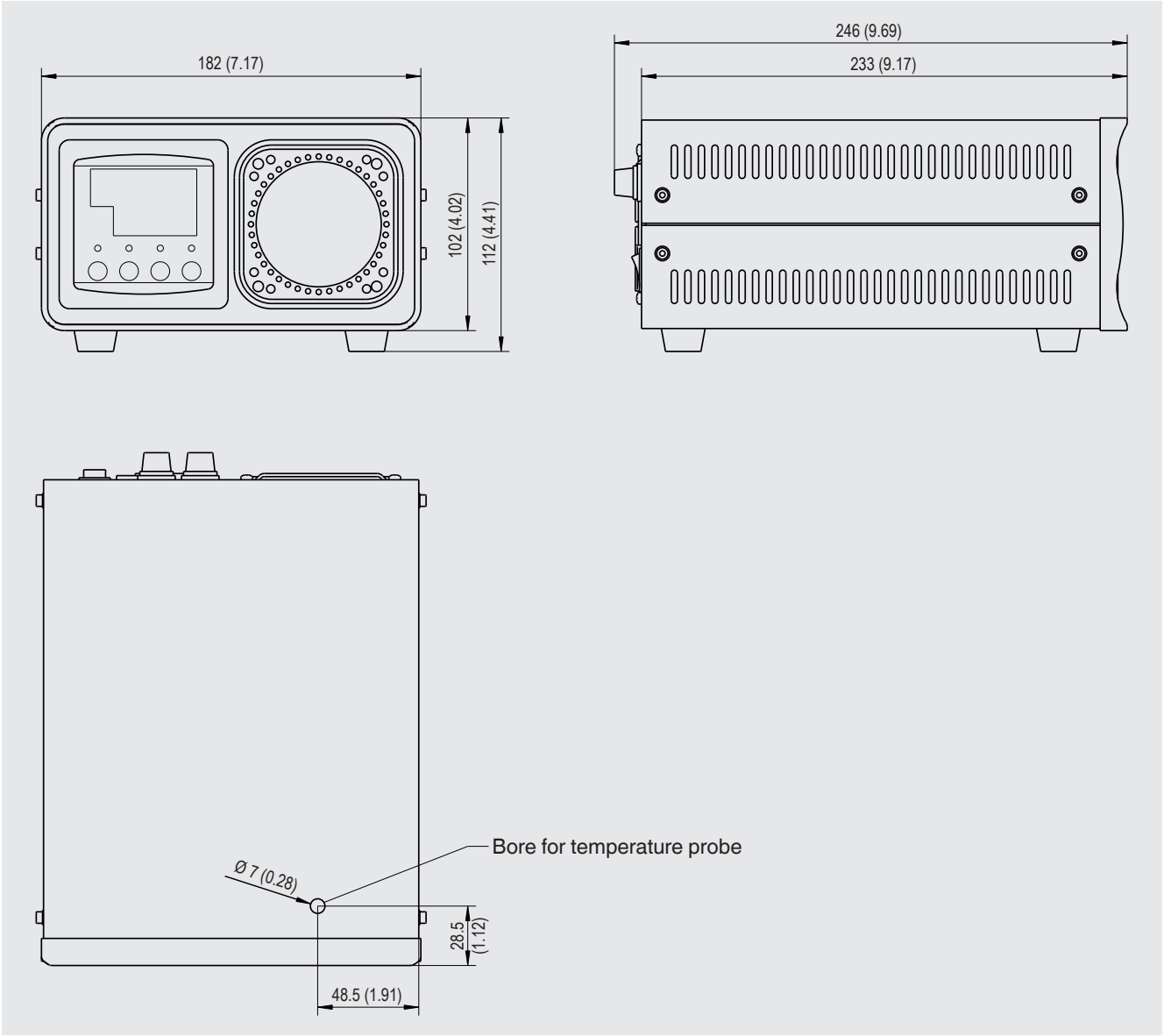
Infrared calibrator	
Indication	
Application range	50 … 500 °C (122 ... 932 °F)
Stability	±0.1 K to 100 °C (212 °F) ±0.2 K to 350 °C (662 °F) ±0.4 K to 500 °C (932 °F)
Resolution	0.1 K
Temperature control	
Heating time	30 min from $T_{amb.}$ to 500 °C ($T_{amb.}$ to 932 °F)
Cooling time	40 min from 500 °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
EAC	**EAC** ■ EMC directive ■ Low voltage directive	Eurasian Economic Community
-	**MTSCHS** Permission for commissioning	Kazakhstan
	BelGIM Metrology, measurement technology	Belarus
	Uzstandard Metrology, measurement technology	Uzbekistan

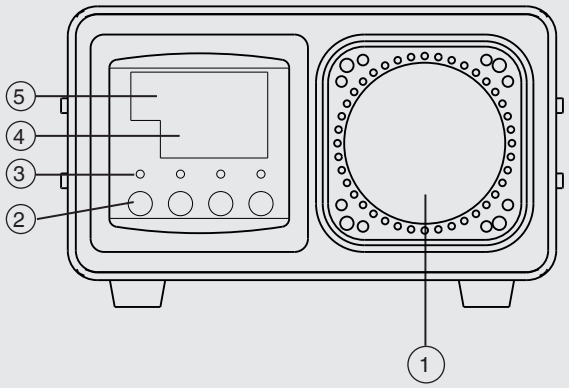
Approvals and certificates, see website

Dimensions in mm (in)

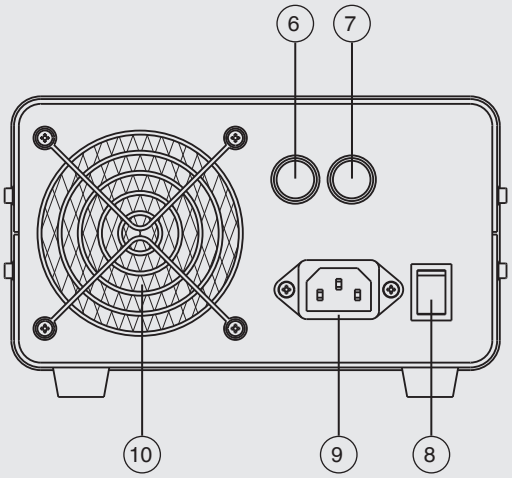


Controls

Front view



Rear view



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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