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

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 $^{\circ}$ 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

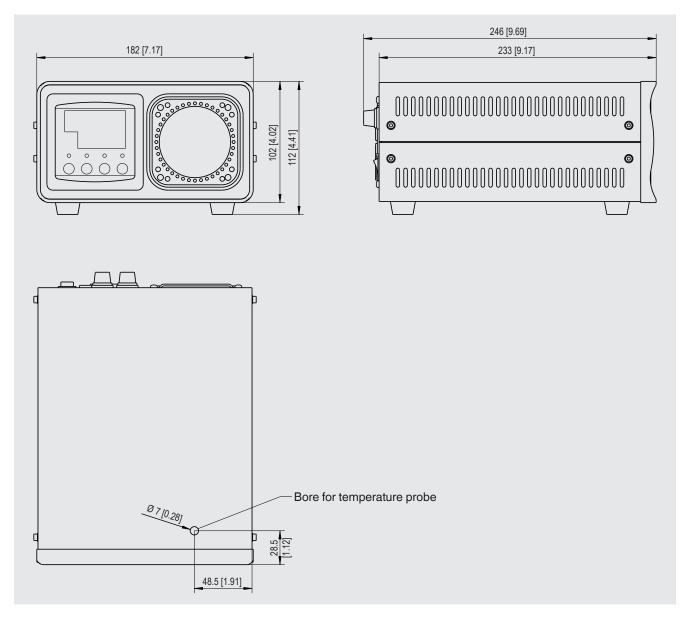
Infrared calibrator			
Indication			
Application range	50 500 °C [122 932 °F]		
Stability	±0.1 K to 100 °C [212 °F] ±0.2 K to 350 °C [662 °F] ±0.4 K to 500 °C [932 °F]		
Resolution	0.1 K		
Temperature control			
Heating time	30 min from T _{amb.} to 500 °C [T _{amb.} to 932 °F]		
Cooling time	40 min 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]		
Bore for temperature probe	suitable for 3 mm [0.12 in] probes with an immersion depth of 68 mm [2.68 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

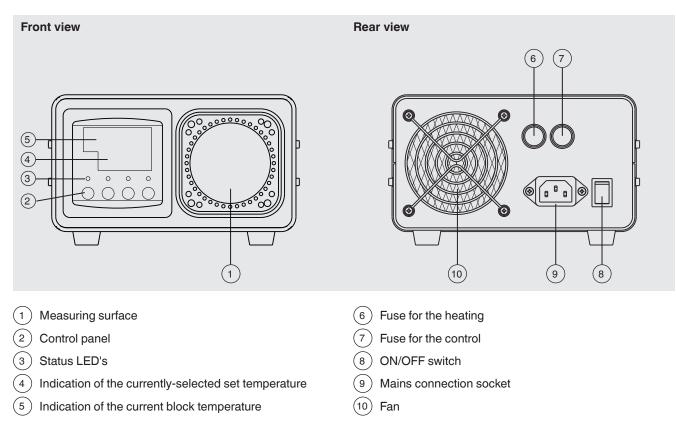
Logo	Description	Country
CE	EU declaration of conformity EMC directive Low voltage directive RoHS directive	European Union
EAC	EAC EMC directive Low voltage directive	Eurasian Economic Community
-	MTSCHS Permission for commissioning	Kazakhstan
œ	BelGIM Metrology, measurement technology	Belarus

Approvals and certificates, see website

Dimensions in mm [in]



Controls



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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Page 4 of 4