



Calibration technology

Infrared hand-held thermometer Model CTR1000

WIKA data sheet CT 55.21



for further approvals
see page 2

Applications

- Diagnostics and monitoring
- Calibration service companies and service industry
- Industry (laboratory, workshop and production)
- Quality assurance

Special features

- Non-contact temperature measurement
- Temperature measuring range from -60 ... +1,000 °C
(-76 ... 1,832 °F)
- Dual-target laser
- Input for thermocouple
- Simple operation



Infrared hand-held thermometer model CTR1000

Description

Infrared hand-held thermometers allow a temperature measurement from a distance, without contact with the object being measured. They can therefore be used where thermocouples and resistance thermometers cannot be used.

In particular due to their simplicity and ease of operation, infrared hand-held thermometers are the safest devices for measuring hot, difficult-to-reach or mobile objects, while avoiding damage or contamination.

Infrared hand-held thermometers are valued by experienced users in a wide range of industries, from the maintenance of machinery and equipment to food monitoring - since they measure surface temperatures quickly, reliably and accurately.

Over the past years, hand-held infrared thermometers have become an essential measuring and testing device in processes where temperature is important. Wherever the temperature significantly affects process safety and product quality, an infrared hand-held thermometer should be at hand.



Typical application examples for the quick, non-contact measurement of surface temperatures with infrared hand-held thermometers are measurements on:

- Difficult-to-access parts
- Rotating parts
- Live electrical conductors
- Dangerously hot objects
- Components with a low mass
- Aggressive materials

Specifications	Model CTR1000
Temperature measuring range	-60 ... +1,000 °C (-76 ... 1,832 °F)
Accuracy ¹⁾	2 K or 2 %
Display resolution	0.1 °C, from 200 °C 1 °C 0.1 °F, from 200 °F 1 °F
Spectral sensitivity	6 ... 14 µm
Measuring distance	up to 8 m (26.25 ft)
Emissivity	0.01 ... 1.00
Optical resolution	50 : 1
Response time	< 1 s
Temperature units	°C and °F
Power supply	2 x 1.5 Volt AAA size
Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Dimensions, H x D x W	203 x 197 x 47 mm (7.99 x 7.76 x 1.85 in)
Weight	386 g (0.851 lbs)

1) The accuracy and reproducibility is specified in K and in % of the reading. The largest value is always used.

Approvals

Logo	Description	Country
	EU declaration of conformity ■ EMC directive ■ RoHS directive	European Union
	EAC EMC directive	Eurasian Economic Community
-	MTSCHS Permission for commissioning	Kazakhstan

Certificates

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

Approvals and certificates, see website



Scope of delivery

- Infrared hand-held thermometer model CTR1000
- Operating instructions
- Batteries
- Transport case
- 3.1 calibration certificate per DIN EN 10204

Accessories

Probe

- Thermocouple type K

Features

- LC display illumination
- Display hold, 20 s
- Min./Max. function
- Average value function
- Differential temperature
- Visible and audible high/low alarm
- Connection socket for thermocouple probe
- Laser – class II
- Tripod thread

Ordering information

CTR1000 / Standard accessories / Further approvals / Additional ordering information

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