

Infrared Hand-Held Thermometer Model CTR1000

WIKA Data Sheet CT 55.21

Applications

- Diagnostics and monitoring
- Service companies
- Industry (laboratory, workshop and production)
- Quality assurance

Special Features

- Non-contact temperature measurement
- Temperature ranges from -60 °C to +1000 °C
- Dual- target laser
- Input for thermocouple
- Simple operation



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Description

Infrared hand-held thermometers enable temperature measurement from a distance, without contact with the object being measured. They are particularly suited to those applications where thermocouples and resistance thermometers cannot be used.

In particular, their simple operation makes infrared hand-held thermometers the safest measuring equipment for measuring hot, difficult-to-reach or mobile objects, and thus avoiding damage or contamination.

Infrared hand-held thermometers are appreciated by experienced users in a wide range of industrial sectors, from the service and maintenance of machinery and plant to foodstuff monitoring, as they rapidly, safely and precisely measure surface temperatures.

In processes where temperature plays an important role, infrared hand-held thermometers have become indispensable test and measurement equipment in the last few years. Wherever temperature has a significant influence on process safety and product quality, an infrared hand-held thermometer should be close at hand.

Typical application examples of non-contact, high-speed measurement of surface temperatures with infrared hand-held thermometers include measurements on:

- Parts which are hard to access
- Rotating parts
- Live electrical conductors
- Dangerously hot objects
- Low-mass parts
- Aggressive materials

Specifications

Model CTR1000

Range	°C	-60 ... +1000
Accuracy ¹⁾		2 K or 2 %
Display resolution		0.1 °C, from 200 °C 1 °C
Spectral sensitivity	µm	6 ... 14
Distance	m	up to 8
Emissivity		0.01 ... 1.00
Optical resolution		50 : 1
Reaction time	s	< 1
Units		°C and °F
Power supply		2 x 1.5 Volt AAA size
Ambient temperature	°C	0 ... 50
Dimensions, H x D x W	mm	203 x 197 x 47
Weight	g	386

1) The precision or reproducibility is given in K and %, respectively, relative to the measured value. The larger value in each case shall apply.

Features

- LCD Display
- Display Hold, 20 s
- Max/Min function
- Average function
- Temperature difference
- Visible and audible High/Low Alarm
- Connection socket for thermocouple sensor
- Laser – Class II
- Threaded tripod connector

Scope of delivery

- Operating instruction
- Batteries
- Case

Products and Services within our Testing and 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.

