

# Infrared Hand-Held Thermometer Model CTH71MT6

WIKA Data Sheet CT 55.20

## Applications

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

## Special Features

- Non-contact temperature measurement
- Measuring ranges from -30 to +500 °C
- Single-laser sighting system
- Easy to use



**Infrared Hand-Held Thermometer Model CTH71ST6**

## Description

Infrared hand-held thermometers allow temperature to be measured 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 easy handling makes infrared handheld thermometers the safest measuring equipment for measuring hot, difficult-to-reach or mobile objects, while avoiding damage or soiling.

The reason why infrared hand-held thermometers are appreciated by experienced users in a wide range of industrial sectors, from machine and plant maintenance to foodstuff monitoring, is because they measure surface temperatures rapidly, safely and with high precision.

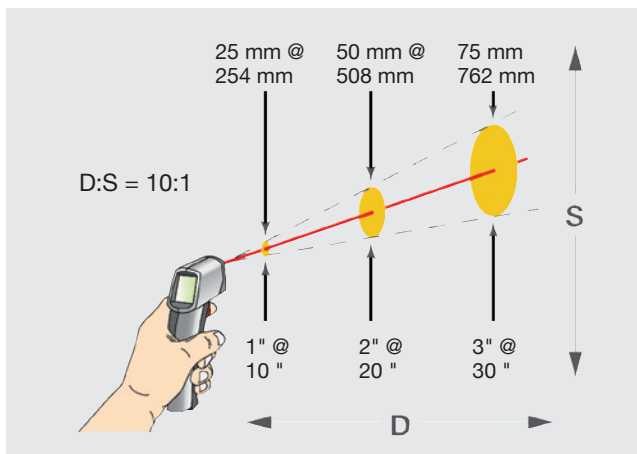
In processes where temperature plays an important role, infrared hand-held thermometers have become indispensable test and measurement equipment.

Wherever temperature is a decisive factor in 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 by means of 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.

# Hand-Held Infrared Thermometer Model CTH71MT6



The IR hand-held thermometers Model CTH71MT6 are non-contact measuring thermometers for simple checks and maintenance tasks in industry. They are designed for measurements from a short distance of no more than 1.5 m to 2.0 m and are very easy to use.

## IR Hand-Held Thermometers Model CTH71MT6

Technical Data		Model CTH71MT6
Operating range	°C	-30 ... +500
Precision <sup>1)</sup>		1.5 K or 1.5 % 1 K for 10 ... 30 °C
Display resolution	K	0.2
Repeatability <sup>1)</sup>		1 K or 0.5 %
Spectral sensitivity	µm	6.5 ... 18
Measuring distance	m	up to 2
Emissivity		0.95 fixed
Optical resolution		10 : 1
Response time	ms	< 500
Temperature units		°C and °F
Auxiliary energy	V DC	9
Ambient temperature	°C	0 ... 50
Ambient humidity <sup>2)</sup>	% rF	10 ... 90
Dimensions, H x D x W	mm	152 x 101 x 38
Weight	g	200

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

2) At ambient temperatures ≤ 30 °C.

## Features

- LCD lighting
- Display Hold, 7 s
- Laser class II

## Scope of delivery

- Operating instructions
- 9 V battery
- Nylon bag

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.



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