

## Infrared thermometer

## FUNCTIONS:



## HIGHLIGHTS:

- Dual-laser
- Alarm function

CONTACT-FREE SURFACE  
TEMPERATURE  
MEASUREMENTS WITHIN SECONDS

## ST 512

Infrared thermometer with dual laser

## Application:

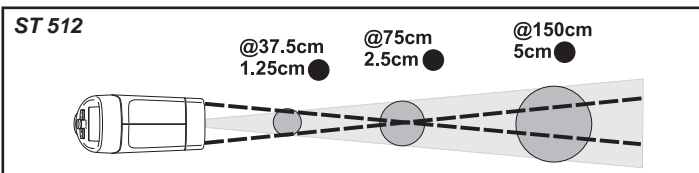
- **Monitoring of circuit boards:** overheated parts
- **Heating / ventilation / air-conditioning:** detecting bad isolation, untight pipes, energy consumption, general service measurements, etc.
- **Electrical systems, machines, power engines:** detecting hot spots at electric connections, temperature rises at motors, bearings, pumps, compressors, etc.
- **Food processing and monitoring:** food temperature, process temperature, etc.
- **Medical technology, biological and chemical analysis:** contact-free temperature measurements within seconds, no longer problems with dangerous, aggressive or similar media
- **Industry, engineering, craft:** Surface temperature measurements of rotating parts (barrels, drums, shafts, printing machines, plastic welding, bitumen, concrete, etc.)

## Specification:

Measuring range:	-50 ... 1000 °C
Resolution:	0.1 °C
Accuracy:	-50 °C ... -23 °C ±7 °C (typical) -23 °C ... -2 °C ±4 °C -2 °C ... 94 °C ±2.5 °C 94 °C ... 204 °C ±(1.0 % of meas. value + 1 °C) 204 °C ... 426 °C ±(1.5 % of meas. value + 1 °C) 426 °C ... 1000 °C ±(3 % of meas. value+1 °C)
Reproducibility:	±0.5 % of meas. value or ±1 °C
Response time (T <sub>95</sub> ):	150 ms
Emission rate:	0.10 ... 1.00, selectable
Spectral range:	8 ... 14 μm
Optical resolution (D/S):	approx. 30:1
Visiereinrichtung:	dual laser
Stromversorgung:	9 V battery
Display:	LCD-display with function indicator symbols and background illumination
Working conditions:	0 °C ... 50 °C, 10 ... 90% RH
Storage temperature:	-10 ... 60 °C
Features:	HOLD, Min-/Max, °F, LOCK, Alarm
Alarm function:	selectable min / max alarm, with integrated buzzer
Dimensions:	146 x 104 x 43 mm
Weight:	163 g
Scope of supply:	device, battery, manual

## Accessories and spare parts:

Calibration certificate (25 / 100 / 200 °C)  
Initial calibration at first delivery



## Infrared thermometer

## FUNCTIONS:



INCL. SOFTWARE AND  
CALIBRATION PROTOCOL

## GIM 3590

Infrared thermometer with cross-hair laser

## General:

- The measured point will be marked exactly with the precision of a laser cross-hair. The integrated sharp point optics allows measurements of even smallest measuring objects down to 1 mm. Its position sensor turns the display always to the most comfortable orientation.
- switchable focus point optics
  - laser cross-hair shows real measuring point size
  - Flip-display
  - additional thermocouple input
  - USB interface and graphical software

## Specification:

Measuring range:	-35.0 ... +900.0 °C (IR and thermocouple type K)
TC input:	thermocouple type K
Resolution:	0.1 °C
Accuracy IR:	±0.75 °C or ± 0.75 % of m.v.
Accuracy type K:	±0.75 K or ± 1 % m.v. (at 23 °C ± 5 °C)
Response time (t <sub>95</sub> ):	150 ms
Optical resolution:	75:1 16 mm @ 1200 mm at focus point optic: 1 mm @ 62 mm
Rate of emission:	0.100 ... 1.100, selectable
Measuring functions:	MAX / MIN / HOLD / DIF / AVG / °C / °F
Alarm functions:	acoustic / visual high-low-alarm
Display:	LC Flipwith position sensor / bar graph
Backlight:	green or alarm colours (red / blue)
Spectral range:	8 - 14 μm
Working temperature:	0 ... 50 °C
Relative humidity:	10 ... 95 % RH (non condensing)
Data logger:	100 measurements protocols
Interface:	USB
Software:	oscilloscopstyle software, 20 readings / s
Voltage supply:	2 x AA alkaline battery or USB
Weight:	420 g
Scope of supply:	Device incl. USB cable & software, bag, insertion probe type K, batteries, carrying loop, calibration protocol, transport case

## Accessories and spare parts:

## Certificate of calibration

## Tripod

## GIM3590

