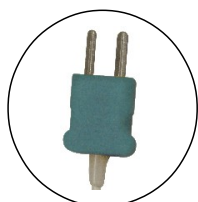


KIRAY 200 Infrared thermometer

Infrared thermometer **KIRAY 200** is an infrared thermometer used to diagnose, inspect and check any temperature. Thanks to its elaborated optical system, it allows an easy and accurate measurement of little distant targets. **KIRAY 200** instrument has an internal memory which can save up to 20 measurements.



Supplied with
thermocouple K probe



TECHNICAL FEATURES

• Instrument features

Spectral response	8 -14 µm
Optical	D.S : 30:1 (50 mm at 1500 mm)
Response time	Less than 1 second
Temperature range	From -50 to +850 °C
Accuracy*	From -50 to -20°C : ±5 °C From -20 to +200 °C : ±1.5% of reading ±2 °C From +200 to +538 °C : ±2% of reading ±2 °C From +538 to +850 °C : ±3.5% of reading ±5 °C
Display resolution	0.1 °C
Emissivity	Adjustable from 0.10 to 1.00 (pre-set at 0.95)
Over range indication	Display indication : « -OL » for a negative over range, « OL » for a positive over range.
Laser sighting	Wavelength : 630-670 nm Output < 1mW, Class 2 (II)
Positive or negative temperature indication	Automatic (no indication for a positive temperature) (-) sign for a negative temperature
Display	4 ½ digits with LCD backlighted display
Auto-extinction	Automatic after 7 seconds of inactivity
High/low alarm	Flashing signal on display and beep signal with adjustable thresholds
Power supply	Alkaline 9 V battery
Autonomy	38 h (inactive laser and backlight) 15 h (active laser and backlight)
Use temperature	From 0 to +10 °C for a short period From 11 to +50 °C for a long period
Storage temperature	From -20 °C to +60 °C
Relative humidity	From 10% to 90%RH in operating mode and >80%RH in storage
Dimensions	175 x 110 x 45 mm
Weight	230 g (included battery)
Memory	20 temperature values with unit of measurement (°C or °F)

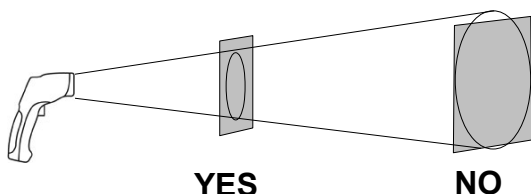
*Accuracy for an ambient temperature from 18 to 28°C (with a relative humidity lower than 80% RH)

• Thermocouple K probe features

Temperature range	From -40 to +400 °C
Display range	From -50 to +1370 °C
Resolution	0.1 °C
Accuracy	±1.5% of reading ±3 °C
Cable length	1 m

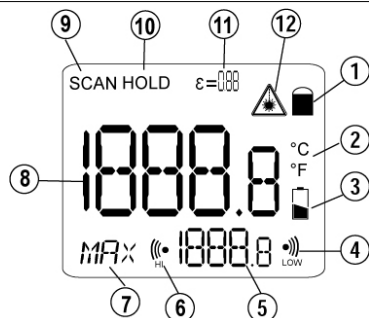
DISTANCE FROM THE TARGET

Distance	150	300	900	mm
Diameter	5	10	30	mm



Make sure that the target is larger than the size of the laser sighting.

DISPLAY



- 1 – Continuous measurement indicator
- 2 – Technical unit (°C / °F)
- 3 – Low battery indicator
- 4 – Low alarm symbol
- 5 – MAX, MIN, DIF (difference between MAX and MIN values), AVG (average), HAL (high alarm), LAL (low alarm), TK (TK temperature) and LOG (recorded value)
- 6 – High alarm symbol
- 7 – EMS, MAX, MIN, DIF, AVG, HAL, LAL, TK and LOG indicator
- 8 – Temperature value
- 9 – Current measurement indicator
- 10 – HOLD indicator (fixed measurement)
- 11 – Emissivity value
- 12 – Laser in operation indicator

KIRAY 200 BUTTONS



- 1 – Up button. It allows to increment emissivity and high/low alarm thresholds and to move to the next recorded value.
- 2 – Set button. It allows to activate or deactivate laser and display backlight. It allows also to record a temperature.
- 3 – Mode button. It allows to navigate through the modes (emissivity, max value, min value, difference, average, high alarm, low alarm, TK value and recorded values).
- 4 – Down button. It allows to decrement emissivity and high/low alarm thresholds and to move to the previous recorded value.

DESCRIPTION

LCD
backlight
display

Up button

Laser and
backlight button

Mode button

Down button

Laser sighting output

IR sensor
(infrared)

Trigger

Compartment
battery

Set technical
Unit (°C/°F)

Set continuous
measurement (On/Off)

Set alarm (On/Off)

Input external
probe

SUPPLIED WITH

- Case with passer-by belt
- User manual
- K thermocouple probe

CE CERTIFICATION

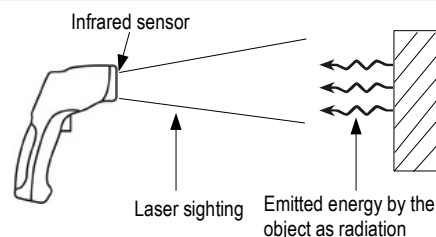
This device meets with following standards' requirements.

- EN 50081-1 : 1992, Electromagnetic compatibility, Part 1
- EN 50082-1 : 1992, Electromagnetic compatibility, Part 2



Infrared thermometer, how it work ?

Infrared thermometers can measure the surface temperature of an object. Its optic lens catches the energy emitted and reflected by the object. This energy is collected and focused onto a detector. This information is displayed as temperature. The laser pointer is only used to aim at the target.



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