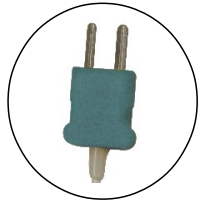


KIRAY 200

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 μ m
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 : $\pm 1.5\%$ of reading ± 2 °C From +200 to +538 °C : $\pm 2\%$ of reading ± 2 °C From +538 to +850 °C : $\pm 3.5\%$ 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)

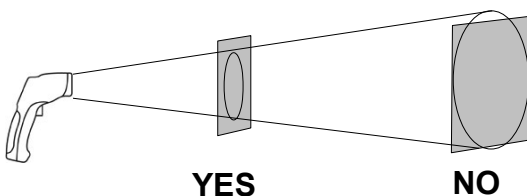
*Accuracy for an ambient temperature from 18 to 28°C (with a relative humidity lower than 80% RH)

• Thermocouple K probe features

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

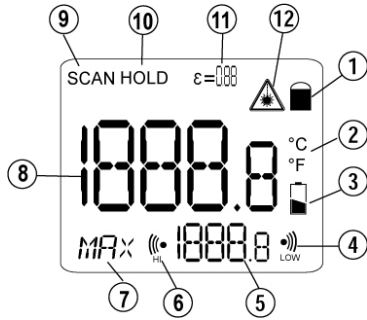
DISTANCE FROM THE TARGET

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

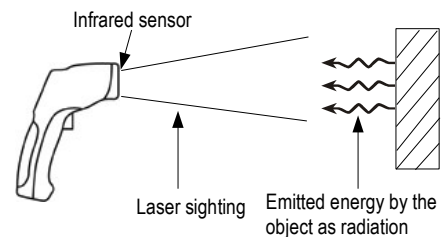
KIRAY 200 BUTTONS



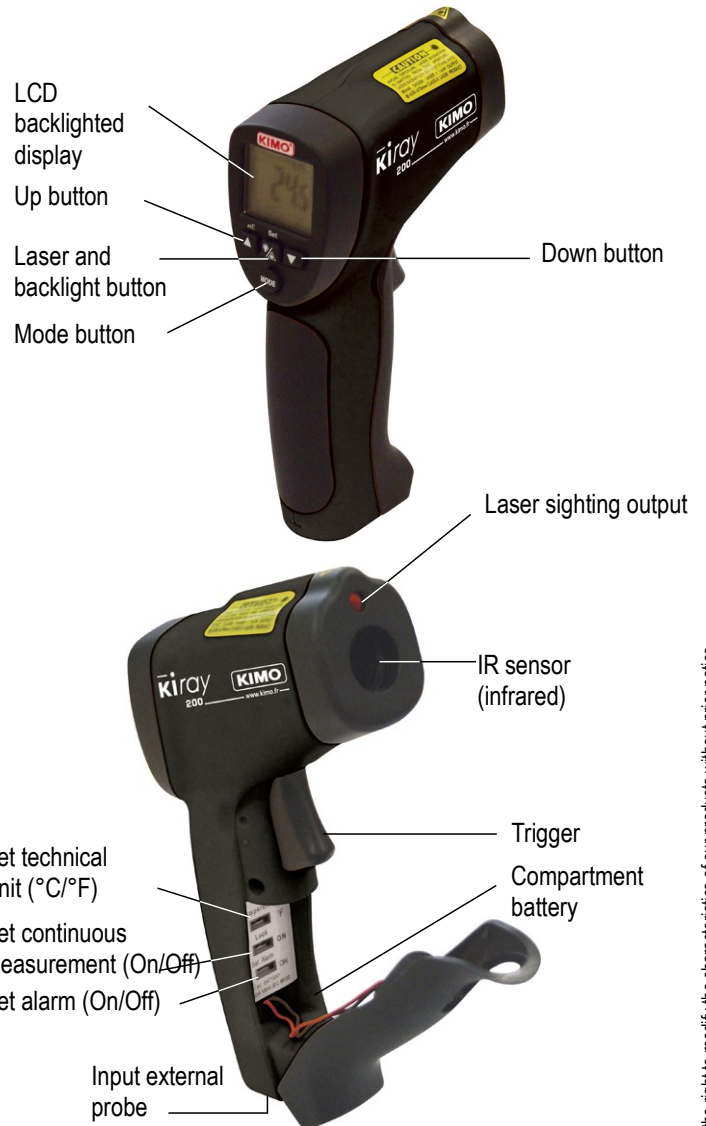
- 1 – Up button. It allows to increment emissivity and high/low alarm thresholds and to move to the next recorded value.
- 2 – Set button. It allows to activate or deactivate laser and display backlight. It allows also to record a temperature.
- 3 – Mode button. It allows to navigate through the modes (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.

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.



DESCRIPTION



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



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