KIMO INSTRUMENTS

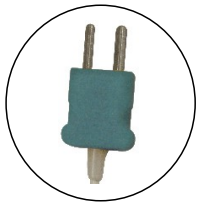
Technical Data Sheet

Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level

New

KIRAY 200

Infrared thermometer

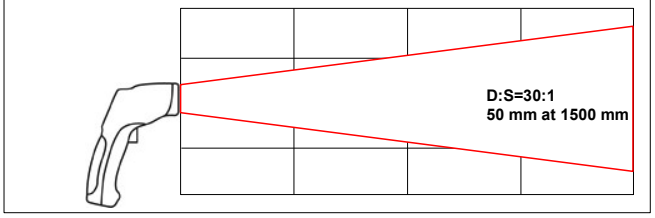


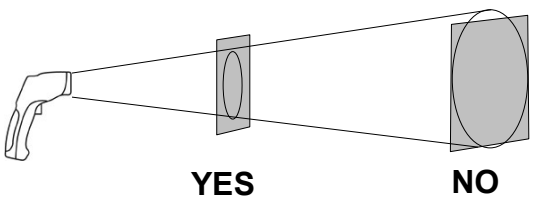
Supplied with thermocouple K probe

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.

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.

Technical features

• *Instrument features*

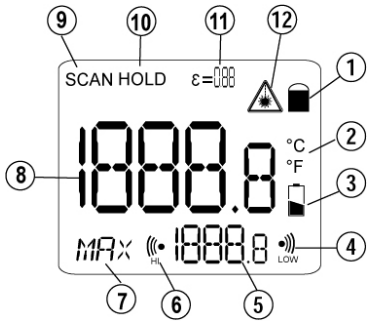
Spectral response.....8 -14 µm
Optical.....D.S : 30:1 (50 mm at 1500 mm)
Response time.....Less than 1 second
Temperature range.....From -50 to +850°C
Accuracy*.....From -50 to -20°C : ±5°C
From -20 to +200°C : ±1.5% of reading ±2°C
From +200 to +538 °C : ±2% of reading ±2°C
From +538 to +850°C : ±3.5% 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 : « -0L » for a negative over range, « 0L » 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 9V battery
Autonomy.....38 h (inactive laser and backlight)
15 h (active laser and backlight)
Use temperature.....From 0 to +50°C
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*

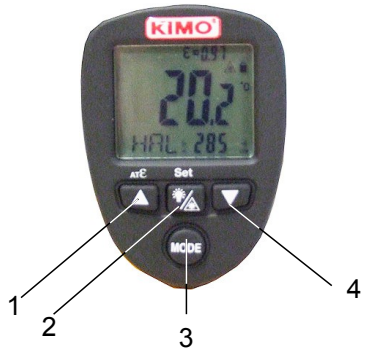
Temperature range.....From -40 to +400°C
Display range.....From -50 to +1370°C
Resolution.....0.1°C
Accuracy.....±1.5% of reading ±3°C
Cable length.....1 m

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



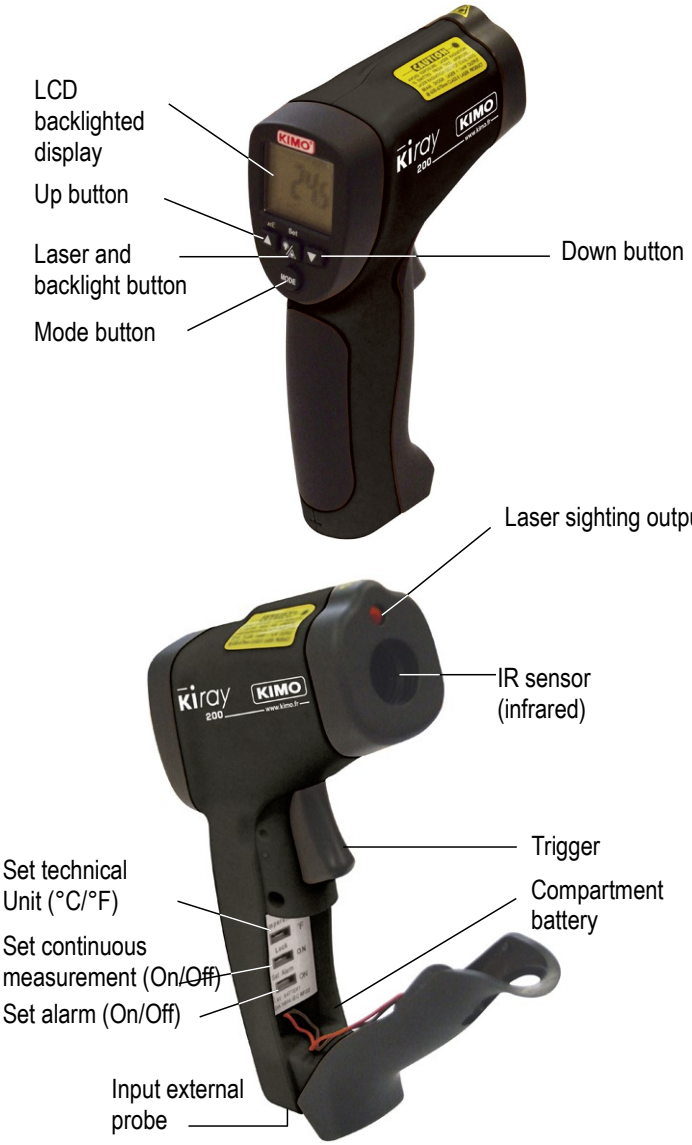
1 – Up button. It allows to increment emissivity and high/low alarm thresholds and to move to the next recorded value.

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



Supplied with

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

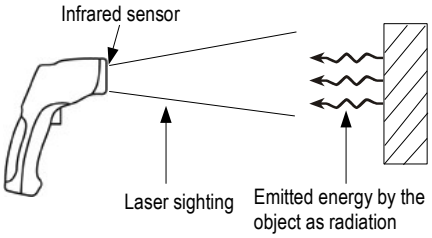
CE Certification

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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