KIMO INSTRUMENTS

Technical Data Sheet

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

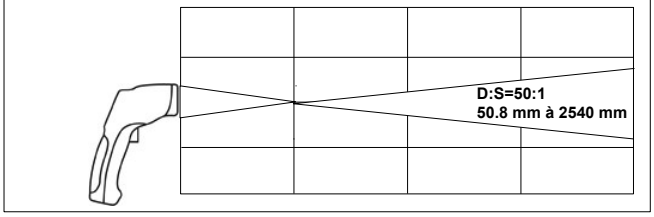
KIRAY 300
Infrared thermometer

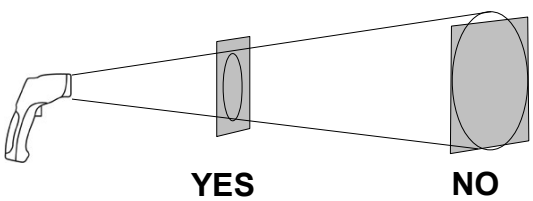
Infrared thermometer **Kiray 300** is a thermometer used to diagnose, inspect and check any temperature. Thanks to its elaborated optical system with a dual laser sighting, it allows easy and accurate measurements of little distant targets. The **KIRAY 300** instrument has an internal memory which can save up to 100 measurements. Compatible with thermocouple K probe.

Supplied with thermocouple K probe

DISTANCE FROM THE TARGET

Distance	1270	2540	3810	mm
Diameter	25.4	50.8	76.2	mm





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

TECHNICAL FEATURES

• *Instrument features*

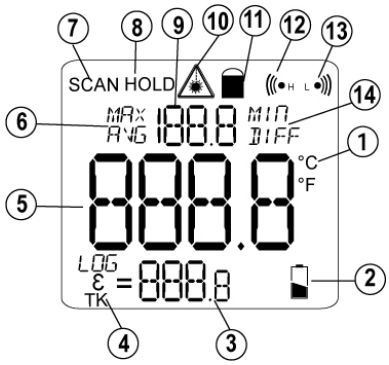
Spectral response	8 -14 µm
Optical	D.S : 50:1 (50.8 mm at 2540 mm)
Response time	150 ms
Temperature range	From -50 to +1850 °C
Accuracy*	From -50 to +20 °C : ±3 °C From +20 to +500 °C : ±1% ±1 °C From +500 to +1000 °C : ±1.5% From +1000 to +1850 °C : ±2%
Infrared repeatability	From -50 to +20 °C : ±1.5 °C From +20 to +1000 °C : ±0.5% or ±0.5 °C From +1000 to +1850 °C : ±1%
Display resolution	0.1 C °
Emissivity	Adjustable from 0.10 to 1.00 (pre-set at 0.95)
Over range indication	Display indication : « ---- »
Dual laser sighting	Wavelength : from 630 nm to 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	3 lines, 4 digits with backlighted display LCD
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	95 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 -10 °C to +60 °C
Relative humidity	From 10% to 90%RH in operating mode and >80%RH in storage
Dimensions	200 x 140 x 50 mm
Weight	320 g (included battery)
Memory	100 temperature values

*Accuracy for an ambient temperature from 23 to 25°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 - Unit of measurement (°C / °F)
2 - Low battery indicator
3 - LOG value (recorded value), EMS (emissivity) and TK (K thermocouple probe)
4 - LOG, EMS, TK indicator
5 - Temperature value
6 - MAX and AVG (average) indicator
7 – Current measurement indicator
8 - HOLD (fixed measurement) indicator
9 - MAX, MIN, AVG, DIF value
10 - Laser operation indicator
11 - Continuous measurement indicator
12 - High alarm indicator
13 - Low alarm indicator
14 - MIN and DIF (difference between MIN and MAX values) indicator

KIRAY 300 INSTRUMENT BUTTONS

1 - Up button. It allows to increment emissivity and high and low alarm thresholds and to go to the following recorded value. It also allows to navigate between MAX, MIN, AVG and LOG.

2 – Backlight/laser button. It allows to activate or to deactivate laser backlight of the screen. You can also saved a value.

3 - Mode button. It allows to navigate through the modes (MAX and MIN values, DIF and AVG, emissivity, high and low alarms, unit of measurement).

4 - Down button. It allows to decrement emissivity and high and low alarm thresholds and to go to the following recorded value. It also allows to navigate between MAX, MIN, AVG and LOG.

SUPPLIED WITH

- Transport case
- User manual
- K thermocouple probe
- Tripod

KIRAY 300 INSTRUMENT DESCRIPTION

CE CERTIFICATION

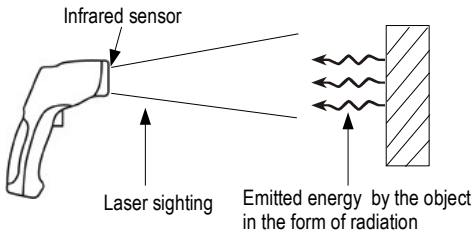
This device meets with following standards' requirements.

EN 61326-1 : 2013 and EN 61326-2 : 2013

CE

Infrared thermometer, how does 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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