USER MANUAL

INFRARED THERMOMETER

PCE-IR 97

ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

DESCRIPTION

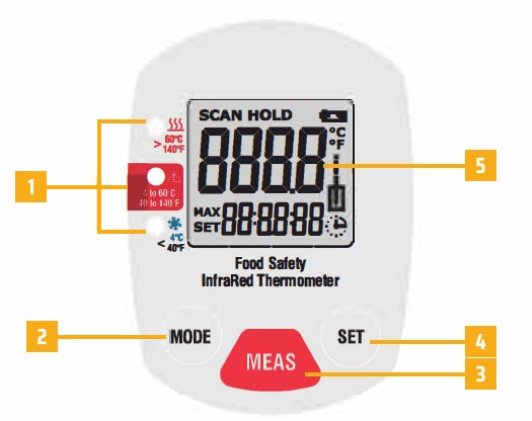
This instrument combine non-contact infrared thermometer with RTD probe, it can measure the surface and inside temperature of object, professional in food measurement. At the same time, it has timer and temperature range indicate light, this functions can fit for HACCP (Hazard Analysis and Critical Control Point), make sure the food are safety.

SPECIFICATION

Temperature range	
infrared	-40 ... 280°C (-40 ... 536°F)
probe	-40 ... 200°C (-40 ... 392°F)
Accuracy	
infrared	> -40 ... 4°C (-40 ... 39.2°F): ±2°C (3.6°F) 4 ... 65°C (39.2 ... 150°F): ±1°C (1.8°F) < 65°C (150°F): ±1.5%
probe	> -5°C (23°F): ±1°C (1.8°F) -5 ... 65°C(23 ... 150°F): ± 1 °C (1.8°F) < 65°C (150°F): ± +1 %
resolution	0.1
repeatability accuracy	< 1 °C
measurement response time	< 500ms
measure D	S 20:1
waterproof level	Ip65

DEVICE DESCRIPTION

Front panel
1 - LED display
2 - MODE button
3 - Measurement
4 - Setting
5 - Display

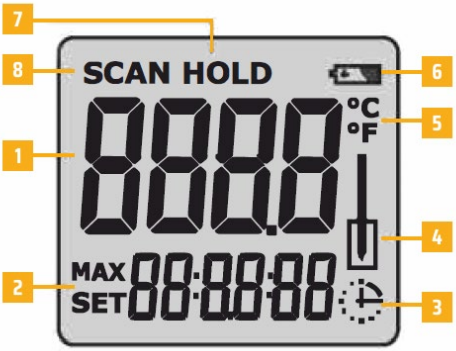


LED description
Green light: below 4°C (39.2°F)
Or above 60°C (150°F), the food are safety.

Red light: 4-60°C(39.2-150°F),
This range has a lot of bacteria.



LCD description
1 - Display (measurement temperature)
2 - MAX and time display
3 - Time symbol
4 - Probe symbol
5 - Temperature unit
6 - Low battery symbol
7 - Data hold
8 - Temperature scan symbol



INSTRUCTIONS

Switch on/off
It can switch on with any button, and display last time measurement on the LCD. It will auto switch off if without operation alter 20 seconds.

Select mode
Press MODE button to choose the mode, it have infrared, probe and timer. Under infrared mode, LCD will display the measurement temperature and MAX reading. Under probe mode, LCD will display a probe symbol, and measure the temperature. Under timer mode, it will display hour: minute: second on the bottom of LCD.

Change temperature unit
Under measurement mode, press SET button to change the temperature unit.

Infrared mode: surface temperature measurement
Let infrared inductor aim at the object, press MEAS to scan the surface temperature, red laser will lighten on the range of measurement, the LCD will display the temperature and MAX after switch on, the LED will blink, that indicate it is safe of the measured temperature.

Probe mode: inside temperature measurement
Press MODE button to enter probe mode, it will display the probe symbol on the right of LCD, insert the probe 1 cm into the object, the LED will blink and that indicate it is safe for the measured temperature.
Note: please clean the probe before/after measurement, it can be more accuracy.

Timer function
Timer is fit for food storage and safety. The instrument has timer and alarm, the highest value can be setting to 10:00:00.

- Press MODE button to timer mode, LCD will display the time of previous setting, if have not setting it, it will display 00:00:00.
- Under timer mode, press SET button to set up time, can change the value of before setting, press MODE button about 3 seconds, can change the blink place, such as: want to set 5 minute and 30 second, when it blink on second, the value can increase to 30, and long press MODE button by 3 seconds, it will blink on minute, the value can increase to 5.
- After setting up, press MEAS button and start to countdown.
- Come back to infrared mode and probe mode, countdown will continue, and clock symbol will blink sequentially, even though the instrument was auto switched off, timer will still display on the LCD.
- When countdown time come to zero, instrument will beep about 30 seconds, press any button to stop beeping or auto stop after 30 seconds.

HACCP (Hazard Analysis and Critical Control Point)
HACCP means hazard analysis and critical control point. It is a preventive of food safety, can use for food manufacture , the instrumenthas LED indicate light to display the safety range of measured temperature, when the temperature lower than 4°C (39.2°F) or higher than 60°C (150°F) , the food is safety, when the green light blinks, it indicates that 4°C ... 60°C (39.2 ... 150°F)may be have bacterium.

Note:

- Instrument is IP65,probe can be cleaned,but can not make steam and smog into infrared induction region, or it will affect the accuracy.
- Please do not take down the probe.
- When the surface temperature approximate the critical value of HACCP, suggest to measure inside temperature for confirmation.

Maintenance
Please clean the housing with soft cloth, do not let any liquid in to infrared induction region.
Please clean the probe before/after using the probe, or disinfect it with water or cleaner.

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

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