



Dr LUCAS NON-CONTACT THERMOMETER

MANUAL

ECT002



CE 0123

RoHS 2011/19/EU

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EC REP

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80, 20537, Hamburg Germany.

NON-CONTACT THERMOMETER

IMPORTANT SAFETY INSTRUCTIONS

READ CAREFULLY AND STORE THESE INSTRUCTIONS FOR FUTURE USE.

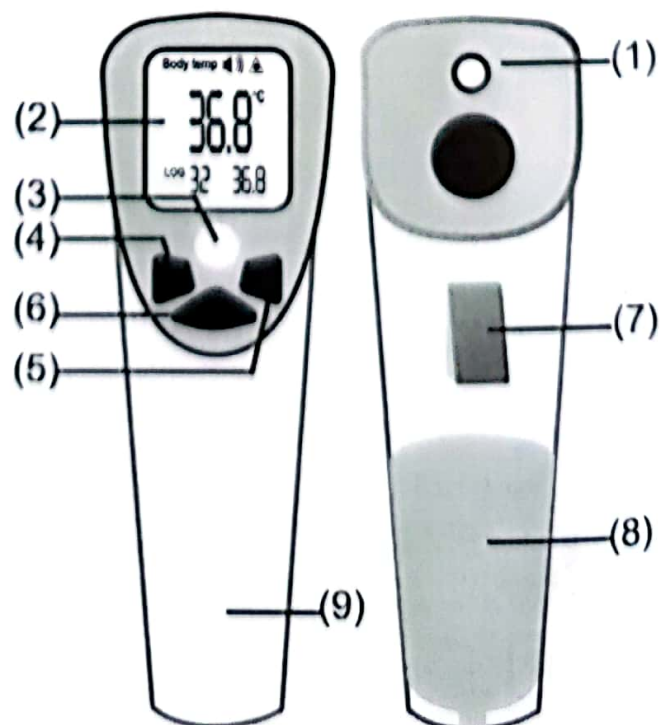
- This device has been designed for private use only and only for the purpose provided.
- Keep the device outside the reach of children.
- Make sure that the measuring lens is always clean.
- Put on the protective cap after each use.
- Do not immerse the device in water.
- Do not let the device fall down and avoid heavy impacts.
- Do not try to disassemble or modify the measuring device.
- Do not use the device if the measuring lens is damaged.
- If you hold the device in your hand for more than 3 minutes this may lead to wrong measuring results for any subsequent measurements. You should therefore avoid to hold the device in your hand for too long.
- If your child is younger than 2 years or if you do not measure your own temperature (e.g., the temperature of older persons) we recommend to take three measurements at the same distance. If the readings differ from each other choose the highest temperature.
- Minor deviations in repeated measurements are permissible.
- For the first use or when inserting new batteries wait about 10 minutes for the warm-up of the apparatus.
- Before measurement, make sure to remove hair and perspiration from the forehead.

CHILDREN AND FRAIL INDIVIDUALS

- In order to ensure your children's safety, please keep all packaging (plastic bags, boxes, polystyrene etc.) out of their reach. **WARNING!** Do not allow small children to play with the foil as there is a danger of suffocation!
- This device is not intended to be used by individuals (including children) who have restricted physical, sensory or mental abilities and/or insufficient knowledge and/or experience, unless they are supervised by an individual who is responsible for their safety or have received instructions on how to use the device.
- Children should be supervised at all times in order to ensure that they do not play with the device.

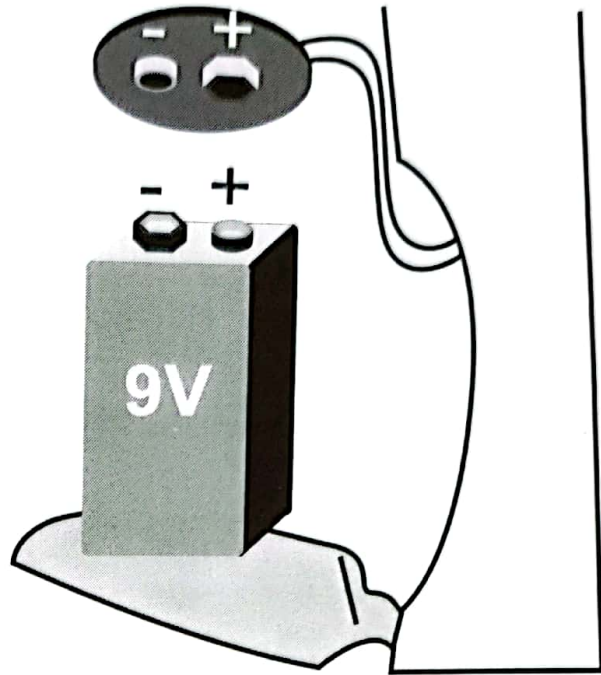
DESCRIPTION

- (1) IR Sensor
- (2) LCD display: it show the measurement digits
- (3) Back light and laser button
- (4) UP button: check memories of measurement / increase data /select setting from F1-F4
- (5) DOWN button: check memories of measurement / reduce data /select setting from F1-F4
- (6) MODE button : Temperature unit (°C/°F) selection and setting button
- (7) Measurement trigger
- (8) Battery cover
- (9) Handle



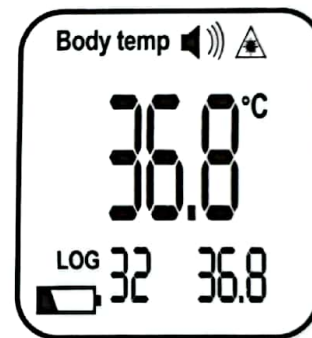
PUTTING IN THE BATTERIES

- Open the battery compartment, you will see the battery connector. See the "+/-" polarity as in the picture.
- Connect the battery "+" polarity to the "-" polarity on the battery connector. Push together to make sure that the connection is well done.
- Carefully put the connected battery inside the battery compartment. Then close the battery compartment.





BATTERY REPLACEMENT

It will show battery symbol on the left corner of the LCD display when the battery is low, please change the battery to make sure the device works properly.



HOW TO USE THE DEVICE

1. press measurement trigger(7) for testing. The default setting is BODY mode.
2. Press measurement trigger (7) to turn on the device. Press mode button (6) shortly to select temperature unit (°/°F).
3. Press mode button (6) for 3 seconds, setting "F1" will show up on the LCD display. Press mode button (6) again, the temperature of fever alarm shows up on LCD display. The default fever alarm is 38°. You can increase or reduce it by pressing UP button or DOWN button. Press mode button (6) to confirm.
4. Press UP button (4), "F2" will show up. You can calibrate temperature.
calibrate temperature:
 - Take temperature of a person using a conventional thermometer: you will get 37.5°C (99.5°F) for instance.
 - Use this device to take temperature of the same person. If you get will get 37.5°C (99.5°F), it means the device is properly set up. If you will get 36.4°C (97.4°F), press UP button to increase to increase to 37.5°C (99.5°F). Press mode button (6) to confirm.
5. Press UP button (4), "F3" will show up. You can press UP button or DOWN button to select Buzzer on or buzzer off. Press mode button (6) to confirm. Once you select the buzzer on, you can hear "DIDI" when you press trigger to measure temperature.
6. Press UP button (4), "F4" will show up. You can press UP button or DOWN button to select surface or body measurement mode. Press mode button (6) to confirm. In surface measurement mode, you can test surface temperature of an object.
7. Press back light/laser button(3) to select back light on/off and laser light on/off. Press mode button (6) to confirm.

Mene	Function	up key	down key	Default
F1	Fever alarm	Increase 0.1°C	Reduce 0.1°C	38°C
F2	Temperature calibration	Increase 0.1°C	Reduce 0.1°C	0.0
F3	Buzzer ON/OFF	Buzzer on ,  icon on LCD	Buzzer off,  disappear from LCD	ON
F4	BODY /SURFACE	BODY	SURF	BODY

8. Press the UP and DOWN button to check the records. There are 32 records in total.

SWITCH OFF DEVICE

Auto off: The device will switch off automatically after 10 seconds when there is no operation of the device.

Manual off: Press measurement trigger (7), the device will switch off.

TEMPERATURE MEASUREMENT

Press the measurement trigger and straight the laser light at the surface or the body you want to measure. the lcd display shows the temperature.

Surface temperature mode

The digits will continue updated if you are pulling the trigger to measure.

Body temperature mode

Press the trigger to update measure the temperature and the current record will show on the lower right corner. Different temperature has different back light.

Green back light: 33.1°C-37.5°C

Orange back light: 37.6°C-38 °C

Red back light: below 33°C and above 38°C

OPERATIONS OF THE RECORDED MEMORIES

Check the memories

Press button (3) or button (4) to check.

SIGNS DISPLY ON LCD

SIGN "HI"

In the body temperature mode, when the temperature is over 43°C (109.4°) which is over the device measuring range. LCD back light turns to red and will display "HI".

SIGN "LO"

In the body temperature mode, when the temperature is less than 32°C (90°F) which is over the device measuring range. the LCD will display "LO". LCD back light turns to red. This sign displays in various cases - please find below a list of the main cases

Reasons for "LO" display	Advice
Temperature measurement hampered by hair, perspiration.	Make sure that there is no obstruction prior to taking a temperature
Temperature measurement hampered by a strong air flux.	Make sure there is no air flux as this could interfere with the infrared system.
Temperature measuring are too often without pause, the device did not have the chance to boot itself.	Please make pause of at least 15 seconds between each measurement.
The measuring distance is too far	Please make sure the measuring distance is between 5 cm and 15 cm.

MAINTENANCE AND STORAGE

- Use a dry cloth to clean the device after each use (recommended).
- Clean the measuring lens and sensor after each use.
- Do not use strong cleaning agents.
- If the measuring device is not used for a longer time, the battery should be removed. (Leaking batteries may damage the device).
- Protect the measuring device from direct sunlight, high temperatures, humidity and dust.
- Do not expose the device to extremely low (below -20°C (-4.0°F)) or high (above 50°C (122.0°F)) temperatures.

TECHNICAL PARAMETERS

Type of battery	9V
Storage temperature	$-10\sim 50^{\circ}\text{C}$ ($14\sim 116^{\circ}\text{F}$)
Usage temperature	$10\sim 40^{\circ}\text{C}$ ($50\sim 104^{\circ}\text{F}$)
Body Temperature measuring range	$32\sim 43^{\circ}\text{C}$ ($90\sim 109^{\circ}\text{F}$)
Body Temperature measuring accuracy	$\pm 0.3^{\circ}\text{C}$ ($\pm 0.6^{\circ}\text{F}$)
Surface Temperature measuring range	$0\sim 100^{\circ}\text{C}$ ($32\sim 212^{\circ}\text{F}$)
Surface temperature measuring accuracy	$\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$)
Minimum readings	$\pm 0.1^{\circ}\text{C}$ ($\pm 0.1^{\circ}\text{F}$)
Response time	1s
Measuring distance	5~15 cm
Auto power off	10 s

WARRANTY

1. This warranty is issued by EDC Poterek Sp. Jawna with address:
ul. Poznańska 129/133, 05-850 Ożarów Mazowiecki, Phone: 022-7213571 w.10 – called hereinafter Esperanza.
2. This warranty confers upon you specific rights and remedies against Esperanza. Please read this document carefully, by making a claim under this warranty, you will be deemed to have understood and accept its terms.
3. Esperanza warrants that any Esperanza product together with attached accessories is free from defects in materials and workmanship under conditions of its normal use.
4. If you make a claim under this warranty, Esperanza will, at its option, repair or replace any defective product into new one by using new or use factory-refurbished parts. In case of using factory-refurbished parts they will be equal to new products.
5. Defective product should be returned together with receipt, commercial invoice or any other proof of purchase to the place of purchase. It should include all accessories attached in original packing. Esperanza has right to reject warranty if any accessories will be missed.
6. Esperanza is committed to respond to the complaint within 14 calendar days of its notification in the point of sale. Esperanza will repair the defective product in the shortest possible time. If will be need to import from abroad of any parts which are necessary to repair this time may be extended.
7. In case of replacing defective product onto new one, Esperanza has right to replace it with newer model with the same technical parameters if the old one model was replaced by new one during warranty period.
8. If you make claim under this warranty, you are deemed to have agreed that repair and (upon availability) replacement, as applicable, under the warranty services described herein, is your sole and exclusive remedy vis-a-vis Esperanza.

EXCLUSIONS:**This warranty does not extend to:**

1. Any product not manufactured by Esperanza
2. Any product that has been damaged or rendered defective as a result of:
 - use it in other way than normal intended use
 - modification or internal interferes or changes of product
 - service or repair by anyone other than Esperanza service
 - improper store, transportation or packing
 - improper installation of product or software
 - mechanical, physical, chemical etc. damages
3. In no event shall Esperanza be liable for any damages, loss of business, profits, data or loss based on use Esperanza products with other devices.
4. Products with removed warranty and other labels and products spent or have hard use marks.

All products are covered by Esperanza's 2-year manufacturer's warranty while product is purchased by the consumer (the consumer is a person who buys product for the purpose of not professional or commercial activity). In the case of purchase for the company (for purposes relating to the activities of professional or commercial) warranty is 1 year from date of purchase. Esperanza products have all the necessary safety certificates required in the EU.



According to Directive 2012/19/EU, disposal of waste electrical and electronic equipment together with household waste is prohibited. Their components need to be recycled or disposed separately. Otherwise, they can cause the release of hazardous and noxious substances which pose a threat to the environment and human health. The law requires each consumer to return unnecessary or waste electrical and electronic equipment to the producers, sales agents or waste treatment facilities. Detailed conditions are governed by national legislation. The above symbol placed on the product, in the user manual or on the packaging refers to this requirement. Thanks to proper segregation and compliance with the provisions relating to waste disposal each user contributes significantly to environmental protection.