

microlife®



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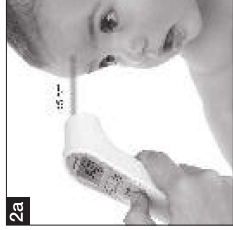
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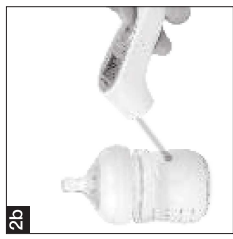
Microlife NC 200



1



2a



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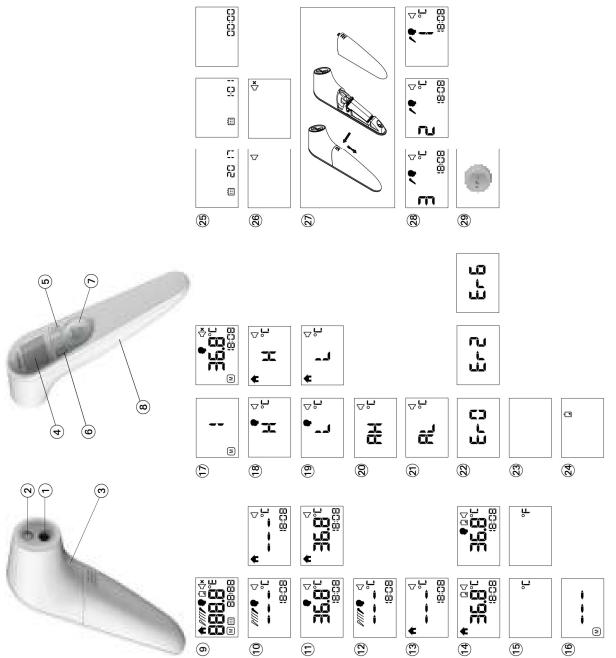
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NC200

Non Contact Thermometer

EN	→	2	←	SL	→	42
RU	→	8	←	SR	→	48
BG	→	16	←	HU	→	54
RO	→	24	←	HR	→	60
CZ	→	30	←	PL	→	66
SK	→	36	←			



**Microlife Non Contact Thermometer NC 200**

**EN**

This Microlife thermometer is a high quality product incorporating the latest technology and tested in accordance with international standards. With its unique technology, this device can provide a stable, non-invasive reading with each measurement. The device performs self-measurement of its own temperature as a part of the specified accuracy of measurement. This Microlife thermometer is intended for the periodic measurement and monitoring of human body temperature. **This thermometer has been clinically tested and proven to be safe and accurate when used in accordance to the operating instruction manual.** Please read through these instructions carefully in order for you to understand all functions and safety information.

- ① Measuring sensor
- ② Tracking light
- ③ Self-indicator light
- ④ Display
- ⑤ M-button (memory)
- ⑥ MODE button
- ⑦ START/IO button
- ⑧ Battery compartment cover
- ⑨ All segments displayed
- ⑩ Ready for measuring
- ⑪ Measurement complete
- ⑫ Body mode
- ⑬ Low battery indicator
- ⑭ Changing between Celsius and Fahrenheit
- ⑮ Recall mode
- ⑯ Recall the last 30 readings
- ⑰ Measured temperature too high
- ⑱ Ambient temperature too low
- ⑲ Ambient temperature too high
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- ⑲ Date/time
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Read the instructions carefully before using this device.

Type BF applied part

**Guarantee Card**

NC 200

Name of Purchaser / Imeio. noyuyoyoyoy /  
 Kúpe na kúpyyoyoy / Numele kúpyyoyoy / Imeio  
 i nazwyisko nabywoy / Jméno kupujícího / Meno  
 zákazníka / Ime in primerek kupca / Ime i prezime  
 kupca / Vásilko neve / Ime i prezime kupca

Serial Number / Číslo sériové / Серийный  
 номер / Numar de serie / Numele seriei /  
 Výrobní číslo / Vyrobné číslo / Serijska številka /  
 Serijski broj / Sorozatszám / Serijski broj

Date of Purchase / Data noyuyoyoy / Data na  
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 kupovine

Specialist Dealer / Оспециализированный пункт /  
 Distributor de specialitate / Specializovaný  
 obchodník / Specializovaný predávateľ / Specializirani trgovci /  
 Specializovaný predávateľ / Specializirani trgovci /  
 Ovlaštnični diler / Forgalmazó / Ovlaštni prodavač



### 13. Guarantee

### 14. Technical Specifications

### 15. [www.microlife.com](http://www.microlife.com)

#### Guarantee Card (see Back Cover)

## 1. The Advantages of this Thermometer

### Measures in a matter of seconds

The innovative infrared technology allows the measurement without even touching the object. This guarantees safe and sanitary measurements within seconds.

### Auto measurement with distance control

The device can take a measurement automatically when the device detects the distance is appropriate within 5 cm.

### Multiple uses (wide range of measurement)

This thermometer offers a wide range of measurement from 0.1 - 99.9 °C / 32.2 - 211.8 °F, meaning the unit can be used to measure body temperature or it also has a feature allowing it to be used to measure surface temperature of the following examples:

- Milk surface temperature in a baby's bottle
- Surface temperature of a baby's bath
- Ambient temperature

### Accurate and reliable

The unique probe assembly construction incorporates an advanced infrared sensor, ensuring that each measurement is accurate and reliable.

### Gentle and easy to use

- The ergonomic design enables simple and easy use of the thermometer.
- This thermometer can even be used on a sleeping child without causing any interruption.
- This thermometer is quick, therefore child-friendly.

### Multiple readings recall

Users will be able to recall the last 30 readings with a record of both time and date when entering the recall mode, enabling efficient tracking of temperature variations.

### Safe and hygienic

- No direct skin contact.
- No risk of broken glass or mercury ingestion.
- Completely safe for use on children.

### Fever alarm

10 short beeps and a red LCD backlight alert the patient that he/she may have a temperature equal to or higher than 37.5 °C.

### Guidance system for self-measurement

A green light on the back shows the user that the device is at the right distance and a measurement will be performed.

## 2. Important Safety Instructions

- Follow instructions for use. This document provides important product operation and safety information regarding this device. Please read this document thoroughly before using the device and keep for future reference.
- This device may only be used for the purposes described in these instructions. The manufacturer cannot be held liable for damage caused by incorrect application.
- **Never immerse this device in water or other liquids. For cleaning please follow the instructions in the «Cleaning and Disinfecting» section.**
- Do not use this device if you think it is damaged or notice anything unusual.
- Never open this device.
- A basic physiological effect called vasoconstriction can occur in the early stages of fever, resulting in a cool skin effect. The recorded temperature using this thermometer can, therefore, be unusually low.
- If the measurement result is not consistent with the patient's finding or unusually low, repeat the measurement every 15 minutes or double check the result by another core body temperature measurement.
- This device comprises sensitive components and must be treated with caution. Observe the storage and operating conditions described in the «Technical Specifications» section.
- Ensure that children do not use this device unsupervised; some parts are small enough to be swallowed.
- Do not use this device close to strong electromagnetic fields such as mobile telephones or radio installations. Keep a minimum distance of 3.3 m from such devices when using this device.
- Protect it from:
  - extreme temperatures
  - impact and dropping
  - contamination and dust
  - direct sunlight
  - heat and cold

- If the device is not going to be used for a prolonged period the batteries should be removed.



**WARNING:** The measurement results given by this device is not a diagnosis. It is not replacing the need for the consultation of a physician, especially if not matching the patient's symptoms. Do not rely on the measurement result: only, always consider other potentially occurring symptoms and the patient's feedback. Calling a doctor or an ambulance is advised if needed.

### 3. How this Thermometer measures Temperature

This thermometer measures infrared energy radiated from the forehead as well as objects. This energy is collected through the lens and converted to a temperature value.

### 4. Control Displays and Symbols


- **All segments displayed** (9): Press the START/IO button (7) to turn on the unit; all segments will be shown for 1 second.
- **Ready for measuring** (10): When the unit is ready for measuring, the «°C» or «°F» icon will keep flashing while the mode icon (body or object) will be displayed.
- **Measuring countdown** (28): A 3 second countdown will be shown on the display (3, 2, 1), before each measurement.
- **Measurement complete** (11): The reading will be shown on the display (4) with the «°C» or «°F» icon and the mode icon steady. The unit is ready for the next measurement as soon as the «°C» or «°F» icon is flashing again.
- **Low battery indicator** (12): When the unit is turned on, the «battery» icon will keep flashing to remind the user to replace the batteries.


### 5. Setting Date, Time and Beeper Functions

#### Setting the date and time

1. After the new batteries are fitted, the year number flashes in the display (25). You can set the year by pressing the M-button (5). To confirm and then set the month, press the MODE button (6).
2. Press the M-button (5) to set the month. Press the MODE button (6) to confirm and then set the day.
3. Follow the previously mentioned instructions to set the day, hours and minutes.
4. Once you have set the minutes and pressed the START/IO button (7), the date and time are set and the time is displayed.


 If no button is pressed for 20 seconds, the device automatically switches to ready for measuring (10).

 **Cancel time setup:** Press the START/IO button (7) during time setup. The LCD will show Date/Time icons with «--:--». After that press the START/IO button (7) to start the measurement. If no further action is taken within 30 seconds, the device will automatically turn off.

 **Change current date and time:** Press and hold the MODE button (6) for approx. 8 seconds until the year number starts to flash (25). Now you can enter the new values as described above.

#### Setting the beeper

1. Press and hold the MODE button (6) for 3 seconds to set the beeper (26).
2. Press the M-button (5) to either turn the beeper on or off. The beeper is activated when the beeper icon (26) is shown without a cross.

 When the beeper setting has been chosen, press the START/IO button (7) to enter the «ready for measuring» mode; otherwise the device automatically switches to ready for measuring after 10 seconds (10).

### 6. Changing between Body and Object Mode

1. Press the START/IO button (7). The display (4) is activated to show all segments for 1 second.
2. The default mode is body mode (12). Press the MODE button (6) to switch to object mode (13). For switching back to body mode, press the MODE button again.

### 7. Directions for Use

Always remove the protective cap (29) before use.

#### Measuring in body mode with auto measurement and distance control

1. Press the START/IO button (7). The display (4) is activated to show all segments for 1 second.
2. A flashing «°C»/«°F» icon, the blinking blue tracking light (2) and a beep indicate that the device is ready for measurement (10).
3. Remove any hair, sweat or dirt from the forehead before measuring to ensure the accuracy of the readings.
4. **Aim the thermometer at the center of the forehead with a distance of no more than 5 cm.**

5. **The device will start the measurement automatically, when the measuring sensor ① detects the distance is appropriate within 5 cm.** The display will show a countdown (3, 2, 1); after 3 seconds a long beep will verify the completion of measurement.
6. **Self-measurement:** The green self-indicator light ③ will help to distinguish the start of the measurement. Keep the thermometer pointed towards the forehead until the light switches off.
7. Read the recorded temperature from the LCD display.
8. For the next measurement remove the thermometer from the forehead and wait until the «C»/«F» icon is flashing. Follow steps 4-5 above.
9. Press and hold the START/IO button ⑦ for 3 seconds to turn off the device; otherwise the device will automatically switch off after approx. 60 seconds.

#### Measuring in object mode without auto measurement

1. Press the START/IO button ⑦. The display ④ is activated to show all segments for 1 second.
2. Press the MODE button ⑥ to switch to object mode.
3. A flashing «C»/«F» icon, the blinking blue tracking light ② and a beep indicate that the device is ready for measurement ⑩.
4. Aim the thermometer at the center of the object you want to measure with a distance of no more than 5 cm. **Press the START/IO button ⑦.** After 3 seconds a long beep will verify the completion of measurement.
5. Read the recorded temperature from the LCD display.
6. For the next measurement wait until the «C»/«F» icon is flashing and follow steps 4-5 above.
7. Press and hold the START/IO button ⑦ for 3 seconds to turn off the device; otherwise the device will automatically switch off after approx. 60 seconds.



#### NOTE:

- **Patients and thermometer should stay in similar room condition for at least 30 minutes.**
- Don't take a measurement while or immediately after nursing a baby.
- Don't use the thermometer in high humidity environments.
- Patients should not drink, eat or exercise before/while taking the measurement.
- Don't move the measurement device from the measuring area before hearing the termination beep.
- 10 short beeps and a red LCD backlight alert the patient that he/she may have a temperature equal to or higher than 37.5 °C.

- Always take the temperature in the same location, since temperature readings may vary according to locations.
- Doctors recommend rectal measurement for newborn infants within the first 6 months, as all other measuring methods might lead to ambiguous results. If using a non contact thermometer on those infants, we always recommend verifying the readings with a rectal measurement.
- In the following situations it is recommended that three temperatures are taken with the highest one taken as the reading:
  1. Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.
  2. When the user is learning how to use the thermometer for the first time until he/she has familiarized himself/herself with the device and obtains consistent readings.
  3. If the measurement is surprisingly low.

- **Readings from different measuring sites should not be compared as the normal body temperature varies by measuring site and time of day,** being highest in the evening and lowest about one hour before waking up.

Normal body temperature ranges:

- Axillar: 34.7 - 37.3 °C / 94.5 - 99.1 °F
- Oral: 35.5 - 37.5 °C / 95.9 - 99.5 °F
- Rectal: 36.6 - 38.0 °C / 97.9 - 100.4 °F
- Microlife NC 200: 35.4 - 37.4 °C / 95.7 - 99.3 °F

## 8. Changing between Celsius and Fahrenheit

This thermometer can display temperature readings in either Fahrenheit or Celsius. To switch the display between °C and °F, **press and hold** the MODE button ⑥ for 3 seconds; the beeper icon is shown on the display. Press the MODE button again; the current measurement scale («C» or «F» icon) will be shown on the display ⑮. Change the measurement scale between °C and °F by pressing the M-button ⑤. When the measurement scale has been chosen, press the START/IO button ⑦ to enter the «ready for measuring» mode; otherwise the device automatically switches to ready for measuring after 10 seconds ⑩.

## 9. How to recall 30 readings in Memory Mode

This thermometer can recall the last 30 readings with a record of both time and date.

- **Recall mode ⑩:** Press the M-button ⑤ to enter recall mode when the power is off. The memory icon «M» will flash.

- **Reading 1 - the last reading** (17): Press and release the M-button (5) to recall the last reading. Number «1» and a flashing «M» are displayed. Pressing and releasing the M-button (5) after the last 30 readings have been recalled will resume the above sequence from reading 1.

## 10. Error Messages

- **Measured temperature too high** (18): Displays «H» when measured temperature is higher than 43.0 °C / 109.4 °F in body mode or 99.9 °C / 211.8 °F in object mode.
- **Measured temperature too low** (19): Displays «L» when measured temperature is lower than 34.0 °C / 93.2 °F in body mode or 0.1 °C / 32.2 °F in object mode.
- **Ambient temperature too high** (20): Displays «AH» when ambient temperature is higher than 40.0 °C / 104.0 °F.
- **Ambient temperature too low** (21): Displays «AL» when ambient temperature is lower than 15.0 °C / 59.0 °F in body mode or lower than 5.0 °C / 41.0 °F in object mode.
- **Error function display** (22):
  - «Er 0»: The system has a malfunction.
  - «Er 2»: Device is directly placed on the forehead / object. Keep the measuring distance of 1-5 cm. **Do not touch the bottom side (sensing area) of the measuring sensor.**
- **Blank display** (23): Check if the batteries have been inserted correctly. Also check polarity (<+> and <->) of the batteries.
- **Flat battery indicator** (24): If only «battery» icon is shown on the display, the batteries should be replaced immediately.

## 11. Cleaning and Disinfecting

Use an alcohol swab or cotton tissue moistened with alcohol (70% Isopropyl) to clean the thermometer casing and the measuring sensor. Ensure that no liquid enters the interior of the device. Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the device in water or other cleaning liquids. Take care not to scratch the surface of the sensor lens and the display.

## 12. Battery Replacement

This device is supplied with 2 new, long-life 1.5V, size AAA batteries. Batteries need replacing when this icon «battery» (24) is the only symbol shown on the display. Remove the battery cover (27) by sliding it in the direction shown.

Replace the batteries – ensure correct polarity as shown by the symbols in the compartment.

-  Batteries and electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste.

## 13. Guarantee

This device is covered by a **5 year guarantee** from the date of purchase. During this guarantee period, at our discretion, Microlife will repair or replace the defective product free of charge. Opening or altering the device invalidates the guarantee. The following items are excluded from the guarantee:

- Transport costs and risks of transport.
- Damage caused by incorrect application or non-compliance with the instructions for use.
- Damage caused by leaking batteries.
- Damage caused by accident or misuse.
- Packaging/storage material and instructions for use.
- Regular checks and maintenance (calibration).
- Accessories and wearing parts: Batteries, Probe cover (optional).

Should guarantee service be required, please contact the dealer from where the product was purchased, or your local Microlife service. You may contact your local Microlife service through our website:

[www.microlife.com/support](http://www.microlife.com/support)

Compensation is limited to the value of the product. The guarantee will be granted if the complete product is returned with the original invoice. Repair or replacement within guarantee does not prolong or renew the guarantee period. The legal claims and rights of consumers are not limited by this guarantee.

## 14. Technical Specifications

<b>Type:</b>	Adjusted mode Non Contact Thermometer NC 200
<b>Mode type:</b>	Adjust mode
<b>Measuring site:</b>	Forehead
<b>Reference body site:</b>	Sublingual
<b>Measurement range:</b>	Body mode: 34.0 - 43.0 °C / 93.2 - 109.4 °F Object mode: 0.1 - 99.9 °C / 32.2 - 211.8 °F
<b>Resolution:</b>	0.1 °C / °F
<b>Measurement accuracy (Laboratory):</b>	Body mode: ±0.2 °C, 35.0 ~ 42.0 °C / ±0.4 °F, 95.0 ~ 107.6 °F ±0.3 °C, 34.0 ~ 34.9 °C and 42.1 ~ 43.0 °C / ±0.5 °F, 93.2 ~ 94.8 °F and 107.8 ~ 109.4 °F Object mode: ±1.0 °C, 0.1 ~ 99.9 °C / ±2 °F, 32.2 ~ 211.8 °F
<b>Clinical results:</b>	Repeatability: 0.26 °C Bias: 0.08 °C Limits of agreement: 1, 13 °C
<b>Display:</b>	Liquid Crystal Display, 4 digits plus special icons
<b>Acoustic:</b>	The unit is turned ON and ready for the measurement: 1 short beep. Complete the measurement: 1 long beep (1 sec.) if the reading is less than 37.5 °C / 99.5 °F, 10 short «beep» sounds, if the reading is equal to or greater than 37.5 °C / 99.5 °F. System error or malfunction: 3 short «bi» sounds. 30 readings recall in the memory mode with a record of both time and date.
<b>Memory:</b>	
<b>Backlight:</b>	The display light will be GREEN for 1 second, when the unit is turned ON. The display light will be GREEN for 5 seconds, when a measurement is completed with a reading less than 37.5 °C / 99.5 °F. The display light will be RED for 5 seconds, when a measurement is completed with a reading equal to or higher than 37.5 °C / 99.5 °F. Body mode: 15 - 40.0 °C / 59 - 104.0 °F Object mode: 5 - 40.0 °C / 41 - 104.0 °F 15 - 95 % relative maximum humidity
<b>Operating conditions:</b>	

<b>Storage conditions:</b>	-25 - +55 °C / -13 - +131 °F 15 - 95 % relative maximum humidity
<b>Automatic Switch-off:</b>	Approx. 1 minute after last measurement has been taken.
<b>Battery:</b>	2 x 1.5 V alkaline batteries; size AAA
<b>Battery lifetime:</b>	approx. 2000 measurements (using new batteries)
<b>Dimensions:</b>	156.7 x 43 x 47 mm
<b>Weight:</b>	91.5 g (with batteries), 68.5 g (w/o batteries)
<b>IP Class:</b>	IP22
<b>Reference standards:</b>	ISO 80601-2-56; IEC 60601-1; IEC 60601-1-2 (EMC); IEC 60601-1-11
<b>Expected service life:</b>	5 years or 12000 measurements
	This device complies with the requirements of the Medical Device Directive 93/42/EEC.
	Technical alterations reserved.
	According to the Medical Product User Act a biennial technical inspection is recommended for professional users. Please observe the applicable disposal regulations.

## 15. [www.microlife.com](http://www.microlife.com)

Detailed user information about our thermometers and blood pressure monitors as well as services can be found at [www.microlife.com](http://www.microlife.com).