

DIAGNOSTIC® NC300

NON-CONTACT INFRARED THERMOMETER

INSTRUCTION MANUAL

Thank you for purchasing this product. Please read this instruction manual thoroughly before use. Please keep and store this instruction manual properly.

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1. PRODUCT LISTING

- Non-contact infrared thermometer 1 pc
- User manual 1 pc
- Battery type AAA x2 2 pc
- Plastic case 1 pc

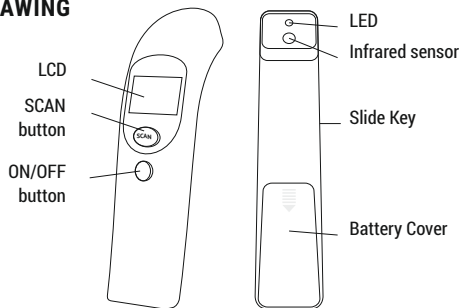
2.PRODUCT OVERVIEW

This device is made use of infrared technology to measure the body's temperature and the ambient temperature. This device measures human temperature from forehead without contact with the skin. This device also enables the user to choose the ambient temperature measuring mode to measure the surrounding temperature.

ADVANTAGES

- backlit LCD digital display screen
- easy to clean sensor
- fast and accurate temperature reading
- easy to use
- 12 measurement memory
- when you turn on device it automatically displays the last recorded result

3. OUTLINE DRAWING



4. THE DEFINITION OF SYMBOLS

- Temperature
- Ambient Temperature Measuring Mode
- Forehead Measuring Mode
- Celsius Scale
- Fahrenheit Scale
- Low Battery
- Last Memory

5. MEASURING MODE

Select the body measurement mode "●" or the ambient measuring mode "🏠"

1) Non-contact temperature measurement on the forehead (Fig.5.1B)

Note: Dry and clean skin before the measurement is performed.

- Press the "POWER" button.
- The LCD will display all symbols as in Figure 5.2B; the last measurement will be displayed as in Fig. 5.3B. After several seconds the device will switch to the body measurement mode, a symbol "●" and temperature symbol "C" or "F" will appear with flash. The device is ready for taking a measurement as in Fig. 5.4B.
- Point the probe to the forehead at a distance of 5-10 cm, press and release "SCAN" button. The measurement is completed with a beep sound.
- Read the result on LCD as in Fig.5.5B.
- If the symbol "C" or "F" is flashing the device is ready for the next measurement. When there is no command after 30 seconds, the device will automatically shut down.

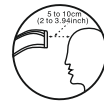


Fig.5.1B



Fig.5.2B



Fig.5.3B

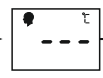


Fig.5.4B



Fig.5.5B

2) Forehead Measuring Mode

- Please make sure the Slide key is pushed up.
- Press the ON/OFF button "⏻"
- The LCD will display as Figure 2.2. Then the last measurement will be displayed as in Figure 2.3. After that, a symbol "●" will flash for 3 seconds with a beep sound; the device is ready for taking a measurement (reading). (Figure 2.4)
- Please make sure no hair is covering the forehead. Please keep the forehead clean. Point the probe to the centre of the forehead. Keep the probe and the forehead at a distance of 5-10 cm.
- Press the Scan button. After about 1 sec., the measurement is completed with a beep sound.
- Read the result on LCD. (Figure 2.5)
- The LCD will display the result for around 30 seconds.
- Please wait 3 seconds for next measurement. Please make sure the symbol "●" is not flashing before starting the next measurement.
- When measuring has been completed and there is no further command after 30 seconds, the device will automatically shut down.
- If the body temperature is higher than 37.8°C, there will be a fever alarm.

3) When the device is on, press the "SCAN" button for approximately five seconds till "ON" or "OFF" symbols displays. Press the "SCAN" button again in order to activate (ON) or deactivate (OFF) sound.



Fig.5.1C



Fig.5.2C

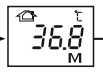


Fig.5.3C

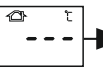


Fig.5.4C

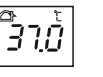
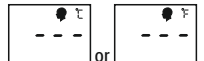


Fig.5.5C

4) Unit Conversion

- In power off condition, press the Scan button.
- Hold for 5 seconds until LCD displays "---", when LCD shows ---, release the Scan button.
- Press again the Scan button to convert the unit from °C to °F or vice versa.
- After finished the °C/°F setting, press the ON/OFF button "⏻" to exit.



5) Memory Recall

- This device can record 12 memories.
- In power off condition, press Scan button to enter the memory recall mode. When LCD shows "--- M", press again the Scan button and last measurement result will be display on LCD after 1 second.
- Press the Scan button again to read the previous measurement results.
- Press ON/OFF button "⏻" to exit.

6. BATTERY VOLTAGE DISPLAY AND REPLACEMENT

In this case, please replace batteries immediately. However, the device can work for a short time (Fig. 6.1)

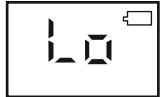


Figure 6.1




Replace battery:

1. Remove the battery cover. Take out the used batteries.
2. Put two new AAA size alkaline batteries into the thermometer. Please pay attention to the polarity.

7. OPERATION PRECAUTIONS

- Before first use put batteries into the thermometer. Please pay attention to the polarity.
 - Before and after use rub the sensor gently with alcohol pad.
 - Keep the device in a dry place. DO NOT immerse the thermometer into water or any liquid.
 - Do not expose the thermometer to extreme temperature conditions, keep away from direct sunlight
 - Keep away from sharp-edged objects.
 - Do not touch the probe head with fingers.
 - DO NOT attempt to disassemble the device. DO NOT drop the thermometer or subject it to other shocks or vibration.
 - Do not measure the temperature within 30 minutes after running, eating or taking shower. The temperature will be different from normal temperature.
 - If the thermometer is taken from environments with large temperature differences,(e.g. from outside to inside), please wait at least 30 minutes before start measurement.
 - Working close to mobile phone may impair the performance of this device. In the event of such circumstances, it is advisable to take three measurements and the highest one is considered reliable.
 - Taking measurements requires constant supervision of an adult. Keep the battery out of reach of children so as not to allow them to swallow the cell battery. Otherwise, it would have a damaging impact.
 - Keep away from children.
- NOTE: Using conditions: Wait several minutes after bringing the device home in order to take measurement.

8. ERROR MESSAGE

LCD Display	Meanings
	The measured temperature is higher than 43°C (109.4°F)
	The measured temperature is lower than 33°C (91.4°F)
	The environment is out of the operating temperature 10 - 40°C (50 - 104°F)

9. SPECIFICATION

Model	NC300
Measuring Range	34 - 43°C (93.2 - 109.4°F)
Accuracy	± 0,3°C/0,5°C 34 - 34,9°C (± 10.2°F/16.9°F 93.2 - 95°F) ± 0,2°C/0,4°C 35 - 42°C (± 6.8°F/13.5°F 95 - 107.6°F) ± 0,3°C/0,5°C 42,1 - 43°C (± 10.2°F/16.9°F 107.8 - 109.4°F)
Time measuring	1 sec
Measuring Distance	5-10 cm
Temperature display resolution	0,1°C/0,2 °F
Automatic Power-off	after 30 sec
Memory	12 measurements
Fever alarm	Yes
Operating Environment	10 - 40°C; Rh ≤ 80% (50 - 104°F)
Storage Environment	-25 - 55°C; Rh ≤ 95% (-13 - 131°F)
Battery	Type AAA x 2
Dimension	138mm x 35mm x 38mm
Weight	76 g

RANGE OF BODY TEMPERATURE

Body temperature means internal temperature of body. Normal temperature means that of healthy person and has little change within short range. Temperature of a person measured in the evening is normally 0.5°C (16.9°F) higher than early morning and also affected by environment, time and activeness. The chart below shows the average of normal changes. Refer to it to find out the personal normal temperature range.










Normal temperature range by each part of body


Armpit	34.7-37.3°C (94.5-99.1°F)
Mouth	35.5-37.5°C (95.9-99.5°F)
Rectum	36.6-38°C (97.9-100.4°F)
Ear	35.8-38°C (96.4-100.4°F)

Normal temperature by age

0-2 age	36.4-38°C (97.5-100.4°F)
3-10 age	36.1-37.8°C (97-100°F)
11-65 age	35.9-37.6°C (96.6-99.7°F)
Above 65 age	35.8-37.5°C (96.4-99.5°F)

SYMBOLS

	LOT Number
	Type B
	Year of production
	Manufacturer
Rev.	Last updated
	Catalog number
	Attention: Consult the instruction manual
	Protect against the sun
	Protect against humidity
	Power supply

 5054



WASTE DISPOSAL

Dispose of the appliance and its accessories in compliance with the regulations in force. Do not dispose of this appliance in the environment!

Manufacturer reserves the right to make changes to specification.

WARNING!

Portable, wireless communication device may affect medical electrical equipment. Working close to mobile phone (within 2.8 m) can cause instability of the stimulator output. Required technical data is available at: www.diagnosis.pl/norma-en-60601-1-2.html

Diagnosis[®]

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