



ADA INSTRUMENTS Bodytester Infrared Thermometer Instruction Manual

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ADA



INTRODUCTION

This infrared thermometer determines surface temperature of an object by measuring infrared energy radiated from object surface. It is a noncontact forehead infrared thermometer designed specifically for measuring forehead temperature of human body. It cannot be used for other body parts.

APPLICATION SCOPE

The temperature of subject is measured by radiation from forehead. The thermometer is applicable to infant, children, and adults

- **Age Normal temperature**
- 0-2 36.1-37.3 °C
- 3-10 36.4-37.3 °C
- 11-65 35.9-37.3 °C
- ≥65 35.8-37.3 °C

PRODUCT ADVANTAGES

1. Three- color backlight and fever indicator ;
2. Two measurement modes can be switched;
3. Automatic shutdown after 20s(\pm 2s) of no operation;
4. Fever indicator time can be set;
5. Temperature correction setting;
6. 32 groups of measurement data can be stored;
7. Silent mode setting;
8. Switch between centigrade degree and Fahrenheit degree.

PREVENTIVE INSPECTION

Please check the appearance of the instrument before use. If it is damaged, it is recommended to stop test. Please check whether batteries are fully charged before use. If the battery is low, it is recommended to replace batteries. Please read this manual carefully before use.

When measuring body temperature, please ensure that the thermometer is in a stable environment. It is recommended not to test in places with big vent such as fan and air conditioners; Please do not use the instrument in the environment of magnetic interference; If the measured object comes from where temperature differs greatly from that of the measured environment, please wait for at least 5 minutes before measurements.

Please do not measure body temperature right after measuring extremely high or low temperature, wait for at least 15 minutes before measurement. Body temperature may change slightly after doing sports, having shower or meal, wait for at least 30 minutes before measurement. When measuring body temperature, it is recommended to take multiple measurements, which-ever appears more often. Please keep the inner space of sensor clean before or after use. After measurement, if the result differs from expectation, it is recommended to use contact thermometer (such as mercury thermometer) as a reference. Please do not crash or drop the thermometer, and stop using it for any damage. Use alcohol gently clean the surface of the thermometer.

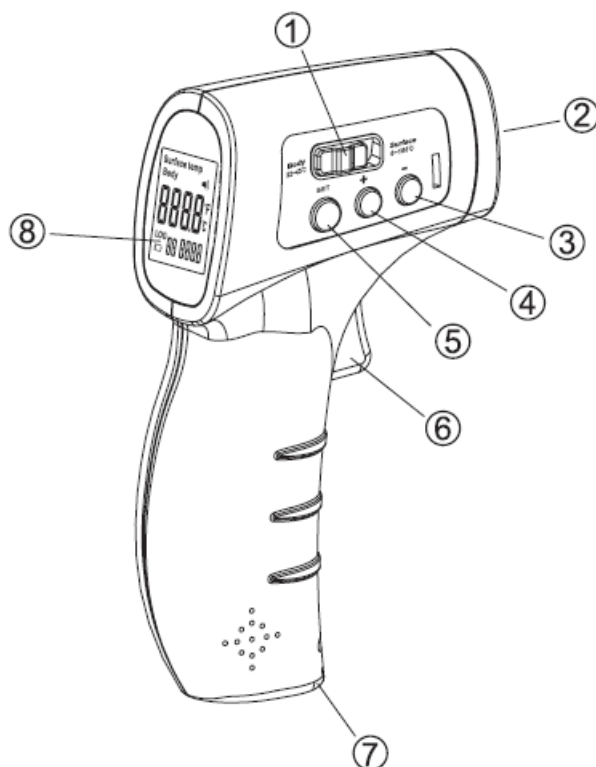
Important reminding:

1. Before measurement, make sure the measured part on forehead clean, for instance, no hair, sweat, dust, etc.
2. Please choose body temperature mode to measure forehead temperature, and calibration mode to measure surface temperature of object.
3. The thermometer applies to body temperature measurement of all ages.
4. The red backlight indicates abnormal body temperature, which is an emergency and requires immediate medical attention.
5. When the instrument detects unstable environment temperature, it reports error and main screen displays icon.

WARNINGS

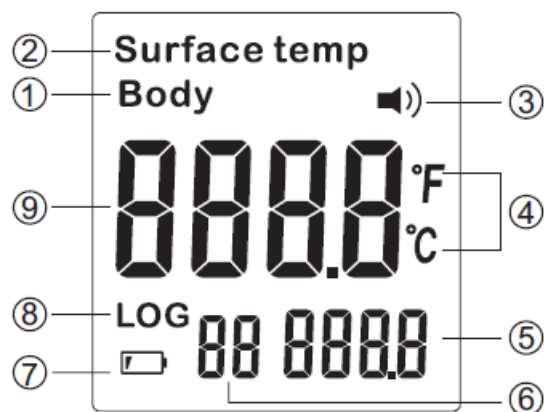
- Keep the thermometer out of children's reach.
- Do not throw the thermometer or battery into the fire.
- This product is not water-proof, please do not put it in water.
- This product cannot replace doctor's diagnosis.

PRODUCT COMPOSITION



1. Body temperature/ calibration switch button
2. Temperature sensor
3. "-"button
4. "+" button
5. Setting button
6. Measurement button/ Power button
7. Battery door
8. LCD

LCD DESCRIPTION



1. Body temperature mode indicator
2. Calibration mode indicator

3. Buzzer indicator
4. Temperature unit
5. Stored data
6. Stored data serial number
7. Low battery indicator
8. Data storage indicator
9. Temperature value

OPERATION INSTRUCTION

Inspection

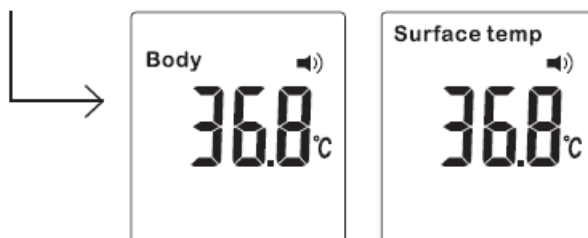
Check whether the package is compact and undamaged, then unpackage and take the thermometer out.

Temperature measurement

1. open battery door and install two AAA batteries in right polarity “+” and “-“, then close battery door.
2. Press power button to turn on the thermometer.
3. After startup, point sensor at the measured object and press measurement button (for object if not human body, switch from measurement mode to correction mode)
4. Body temperature measurement Switch to body temperature mode, point thermometer at the center of forehead and keep it vertical at distance of 1~3cm; press measurement button, measurement value appears after about 1s; if the value exceeds alarm value (38 ° C by default) , and the mometer lets out beeps.

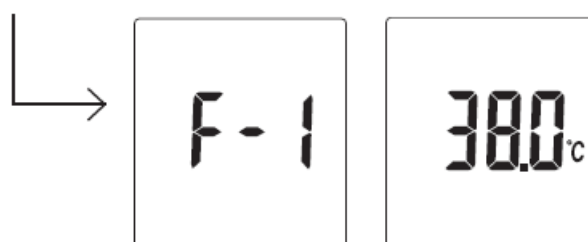
Switch measurement mode

press “body/ correction” button to switch measurement mode



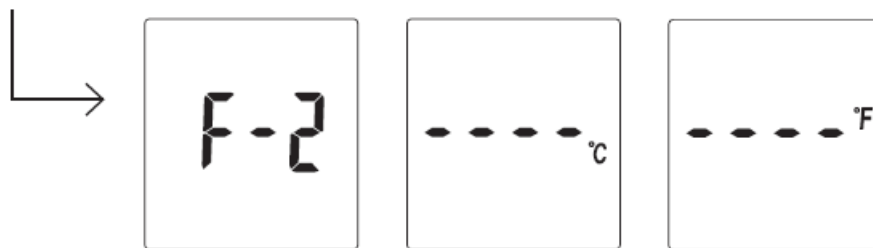
Alarm temperature setting:

Long press setting button for 2S, LCD shows F1, and then press setting button once to display F2 (the original unit is displayed after 1~ 2S) , and press + / – button to adjust unit.



Temperature unit setting:

Long press setting button for 2S, LCD shows F1, and then press setting button once to display F2 (the original unit is displayed after 1~ 2S) , and press + / – button to adjust unit.

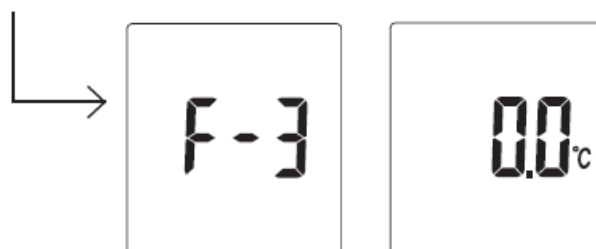


Body temperature correction settings:

Due to different skin color and skin thickness, there will be some differences in body temperature (surface temperature) , so it is necessary to add a correction function; long press setting button for 2S, LCD screen displays F1, then press setting button twice to display F3 (the original setting value is displayed after 1~ 2S) , and press + / – button to adjust correction value. The default setting is 0.0 without correction.

For example: Suppose the actual body temperature is 37.6°C. If the forehead temperature measured by this machine is 38.1°C , 0.5°C higher than actual value, the temperature value can be corrected by this method. In this example, after entering F3, press – button to change the corrected value to “ – 0.5°C” .

Note: After removing battery, the thermometer powers off and restarts, correction value will be restored to default value.



Buzzer switch setting:

Long press setting button for 2S, LCD screen displays F1, and then press setting button three times to display F4 (the original setting shows after 1~ 2S) , press + / – button to adjust, LCD screen displays On or oFF at the same time.



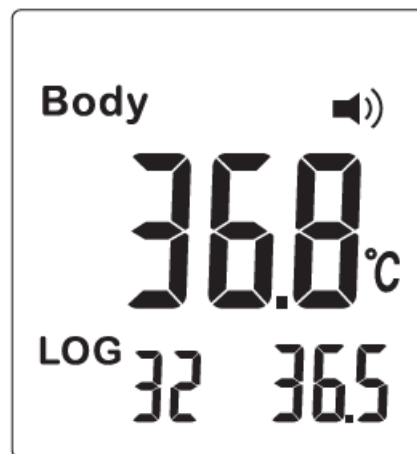
Backlight indicator settings:

Long press setting button for 2S, LCD screen displays F1, and then press setting button 4 times to display F5 (the original setting shows after 1~ 2S) , press + / – button to adjust with LCD screen displaying Lon or LoFF at the same time.



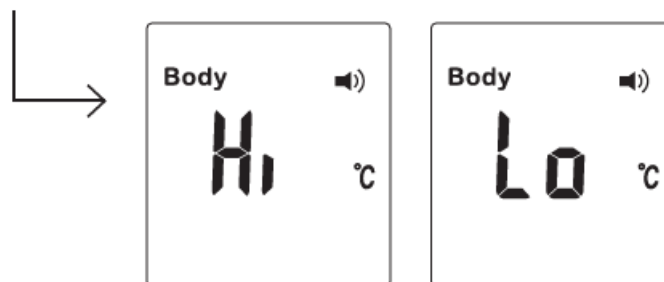
Data storage:

1. After each measurement, measurement data will be automatically recorded (LOG) . 32 groups of data can be recorded, other data automatically cover the first one and so on.
2. In startup state, short press setting button to enter memory view mode Press + / – button at this time to view the measured data.



Other icons

Body temperature mode: if temperature of the measured object is too high, the screen displays "Hi". Body temperature mode: if the temperature of the measured object is too low, the screen displays "Lo".



TECHNICAL PARAMETERS

Mode	Body	Surface
Measurement range	32°C~43°C (89.6°F~109.4°F)	0°C~100°C (32°F~212°F)
Error	32°C~34.9°C (89.6°F~94.82°F) : ±0.3°C (±0.5°F)	±2°C (±3.6°F)
	35°C~42°C (95°F~107.6°F) : ±0.2°C (±0.4°F)	
	42.1°C~43°C (107.78°F~109.4°F) : ±0.3°C (±0.5°F)	
Backlight indication	Green:≤37.3°C (99.14°F) ;	Green:0°C~100°C (32°F~212°F)
	Orange:37.4°C (99.32°F) ~37.9°C (100.22°F) ;	
	Red:≥38°C (100.4°F) ;	
Measuring part	forehead	surface
Resolution	0.1°C(0.1°F)	
Measuring distance	1~3cm	
Over working temperature indication	LCD shows "AL H"/"AL L"	
Overload indication	LCD shows "Hi"/"Lo"backlight indicator: red	
Working environment	Temperature, 16~35°C(60.8~95°F)	
	Relative humidity, ≤85%	
	Pressure, 70kPa~106kPa	
Transport and storage	Temperature, -22~55°C(-7.6~131°F)	
	Relative humidity, ≤93%	
	Pressure, 70kPa~106kPa	
Auto power-off	20s(±2s) no operation	
Power supply	DC 3V (2*1.5V AAA batteries)	

BATTERY CHANGE

Thermometer adopts two AAA batteries. low battery indicates low power and needs to change batteries. Open battery door and take out batteries, install new batteries in right **polarity**. **Precautions:**

- Battery change need to be careful of polarity. Misplacement may cause damage to the product.
- If you do not need to use thermometer for longer than a month, please take out batteries in case that liquid may cause damage to thermometer.
- Do not store battery in environment of high temperature and humidity.
- Stop using batteries for any leakage or mold.
- Please keep batteries away from fire in case of explosion
- To prevent short circuit, please do not put batteries together with metals like coin in the same container-like pocket.

PRODUCT MAINTENANCE, CLEANING AND DISINFECTION

1. The probe part is the most refined part of the product and must be protected carefully.
2. Do not immerse thermometer in water or other liquids.
3. Put the product in a dry place to avoid flying dust, pollution and direct sunlight.
4. Please use alcohol cloth or cotton cloth moistened with 70% ~75% alcohol to clean the thermometer and keep

away from liquid.

5. Do not use aggressive detergents, thinners or gasoline for cleaning.
6. If thermometer detects fever, 75% alcohol must be used for disinfection; if it is not used for a long time, it needs to be disinfected in use, and try not to get liquid into the thermometer during disinfection.
7. It is recommended to maintain at least once half a year (maintenance, cleaning, disinfection by the user)

WARRANTY

This product is warranted by the manufacturer to the original purchaser to be free from de-fects in material and workmanship under normal use for a period of two (2) years from the date of purchase. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufactures option), without charge for either parts or labour. In case of a defect please contact the dealer where you originally purchased this product. The warranty will not apply to this product if it has been misused, abused or altered. Without limiting the foregoing, leakage of the battery, bending or dropping the unit are presumed to be defects resulting from misuse or abuse.

EXCEPTIONS FROM RESPONSIBILITY

The user of this product is expected to follow the instructions given in operators' manual. Although all instruments left our warehouse in perfect condition and adjustment the user is expected to carry out periodic checks of the product's accuracy and general performance. The manufacturer, or its representatives, assumes no responsibility of results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits. The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster (earthquake, storm, flood ...), fire, accident, or an act of a third party and/or a usage in other than usual conditions. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data and interruption of business etc., caused by using the product or an unusable product. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other than explained in the users' manual. The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement or action due to connecting with other products.

WARRANTY DOESN'T EXTEND TO FOLLOWING CASES:

1. If the standard or serial product number will be changed, erased, removed or will be unreadable.
2. Periodic maintenance, repair or changing parts as a result of their normal runout.
3. All adaptations and modifications with the purpose of improvement and expansion of normal sphere of product application, mentioned in the service instruction, without tentative written agreement of the expert provider.
4. Service by anyone other than an authorized service center.
5. Damage to products or parts caused by misuse, including, without limitation, misapplication or negligence of the terms of service instruction.
6. Power supply units, chargers, accessories, wearing parts.
7. Products, damaged from mishandling, faulty adjustment, maintenance with low-quality and non-standard materials, presence of any liquids and foreign objects inside the product.
8. Acts of God and/or actions of third persons.
9. In case of unwarranted repair till the end of warranty period because of damages during the operation of the product, it's a transportation and storing, warranty doesn't resume.

WARRANTY CARD

Name and model of the product _____
Serial number _____ Date of sale _____

Name of commercial organization _____

Stamp of a commercial organization

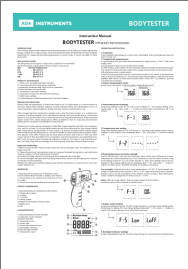
The warranty period for the instrument exploitation is 24 months after the date of original retail purchase. During this warranty period, the owner of the product has the right for free repair of his instrument in case of manufacturing defects. Warranty is valid only with original warranty card, fully and clear filled (stamp or mark of the seller is obligatory).

Technical examination of instruments for fault identification which is under the warranty is made only in the authorized service center. In no event shall the manufacturer be liable before the client for direct or consequential damages, loss of profit or any other damage which occur in a result of the instrument outage. The product is received in the state of operability, without any visible damages, in full completeness. It is tested in my presence. I have no complaints to the product quality. I am familiar with the conditions of warranty service and i agree.

Purchaser signature _____

Before operating you should read service instruction! If you have any questions about the warranty service and technical support contact seller of this product ADA International Group Ltd., No.6 Building, Hanjiang West Road #128, Changzhou New District, Jiangsu, China Made In China adainstruments.com

Documents / Resources



[ADA INSTRUMENTS Bodytester Infrared Thermometer](#) [pdf] Instruction Manual
Bodytester Infrared Thermometer

References

-  [ADA Instruments](#)