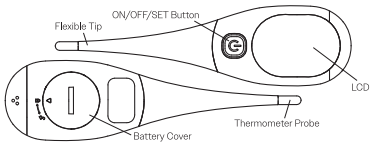
kinetik WELLBEING

Digital Thermometer

REF DT-K111l



Introduction

Congratulations on your purchase of this product. Please read the instructions carefully before using the thermometer for the first time, and keep these in a safe place. This product is intended for the measurement of human body temperature. This product is for home and hospital use, operator shall be at least 11 years old and patient can be operator.

Support

Our manual should provide you with all the information you need to set up & use this product. If you have a question, have a look at our troubleshooting page! For further assistance, why not contact our customer care team directly? We're here to help! Our customer care team are available from 9am - 5pm, Monday to Friday (excluding bank holidays). We promise to respond to all queries and will ensure to resolve any issue you may be having. You can reach us by...

Live Chat:
Simply visit www.kinetikwellbeing.com and send us a message.

Email:
customercare@kinetikwellbeing.com

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Kinetik Medical Devices Ltd
Unit 11 Perrywood Business Park, Honeycrock Lane,
Salfords, Redhill, RH1 5JQ

About Age-Exact™

The Kinetik Wellbeing Digital Thermometer is expertly designed to deliver precise and reliable temperature readings for every stage of life. Research shows that fever thresholds vary by age*.

Our innovative Age-Exact™ technology accounts for these age-specific differences, providing a clear, colour-coded result that instantly indicates whether the temperature is normal, a low-grade fever, or a high fever.

Site	Age Range		Green Within normal range	Yellow Low-grade fever	Red High
Underarm	0-3	Babies: Under 3 months old	≥35.7 - ≤37.3 °C		≥37.3 - ≤42.9 °C
	3-36	Children: 3 months to 3 years	≥35.3 - ≤37.4 °C	>37.4 - ≤38.4 °C	≥38.4 - ≤42.9 °C
	36+	Over 36 months	≥35.3 - ≤37.4 °C	>37.4 - ≤39.4 °C	≥37.4 - ≤42.9 °C

If you use the thermometer for oral or rectal sites, please ingore the display colour. Instead, refer to the oral and rectal temperature tables below.

Site	Age Range		Within normal range	Low-grade fever	High
Oral	0-3	Babies: Under 3 months old	≥35.8 - ≤37.4 °C		≥37.4 - ≤42.9 °C
	3-36	Children: 3 months to 3 years	≥35.4 - ≤37.6 °C	>37.6 - ≤38.5 °C	≥37.5 - ≤42.9 °C
	36+	Over 36 months	≥35.4 - ≤37.7 °C	>37.7 - ≤39.4 °C	≥37.4 - ≤42.9 °C
Rectal	0-3	Babies: Under 3 months old	≥36.3 - ≤37.9 °C		≥37.9 - ≤42.9 °C
	3-36	Children: 3 months to 3 years	≥35.9 - ≤38.1 °C	>38.1 - ≤39.0 °C	≥39.0 - ≤42.9 °C
	36+	Over 36 months	≥35.9 - ≤38.2 °C	>38.2 - ≤39.9 °C	≥39.9 - ≤42.9 °C

* Herzog L, Phillips S. Addressing Concerns About Fever. Clinical Pediatrics. 2011; 50(#5): 383-390.

How to take a temperature



Fig A

Before using, please disinfect the probe. Press the "ON/OFF/SET" button, a short beep will sound. At the same time the thermometer runs a self-check test, during which all the digital segments (as Fig A) will appear on the LCD. When the letters "Lo" and a flashing ""C" or ""F" display, the thermometer is ready for use. The Age-Exact™ symbol will be shown on the display. Press "ON/OFF/SET" to cycle through "0-3", "3-36" & "36+" age ranges. Check the correct age range is selected for the patient before use.

If the ambient temperature is below 32°C or 89.6°F, then "Lo°C" or "Lo°F" will appear on the LCD and if it is more than 42.9°C or 109.2°F, then "HI°C" or "HI°F" will appear on the LCD. During the reading, the current temperature is displayed continuously and the ""C" or ""F" symbol flashes. The measurement is completed when a constant temperature value has been reached.

The temperature value is considered constant when the temperature rises less than 0.1°C within 8 seconds. As soon as the constant temperature value is reached, a beep will sound 12 times, and the ""C" or ""F" symbol will stop flashing.

The measured temperature appears on the LCD. Please note that the temperature can increase slightly if the measurement continues after the beep. This is particularly the case with axillary measurements, the temperature value should be recorded which approximates the core body temperature. In this instance please note the description under the "Methods of measuring temperature".

When the measurement is completed, please switch the thermometer off by pressing and holding the "ON/OFF/SET" button for 3 seconds. After the temperature has been displayed, the thermometer will shut off automatically in 10 minutes.

Memory function

Turn on the thermometer, the last measured temperature will display on the LCD for approximately 2s after the self-check. Then the thermometer is ready for a measurement.

Methods of measuring temperature

It is important to remember that the body temperature reading depends on the site where it is measured. For this reason, the measurement site must always be specified in order to ensure that a correct temperature reading is recorded.

Underarm (axillary):
Placing the thermometer in the armpit provides a measurement of surface temperature that can fluctuate by around 0.5 to 1.5 from rectal temperature readings in adults. The usual measuring time for this method is approximately 50 to 70 seconds. It should be noted that an exact reading won't be obtained if, for example, the armpit temperature is lower than normal(the armpit temperature has been cooled down). If in this case, we recommend extending the measuring time by around 5 minutes in order to obtain the most precise possible reading that corresponds as closely as possible to the core body temperature.

In the mouth (oral):
There are different heat zones in the mouth. As a general rule, the oral temperature is 0.3 to 0.8 lower than the rectal temperature. To ensure that reading is as accurate as possible, place the thermometer tip to the left or right of the root of the tongue. The thermometer tip must have constant contact with the tissue during the reading and be placed under the tongue in one of the two heat pockets at the back, keep the mouth closed during the reading and breathe evenly through the nose. Do not eat or drink anything before the measurement. The usual measuring time is approximately 40 to 60 seconds.

In the rectum (rectal):
This is the most accurate method from a medical point of view, because it comes closest to the core body temperature. The thermometer tip is inserted carefully into the rectum for a maximum of 2 cm. The usual measuring time is approximately 40 to 60 seconds.

Change the measuring unit



Fig B

To switch the unit between °C and °F, turn the thermometer off. Press and hold the "ON/OFF/SET" button until the LCD shows as Fig B, then release the button. Press the button to choose the unit, the chosen unit will be flashing. The thermometer will shutdown automatically in 5 seconds.

Cleaning and disinfection

The best way to clean the thermometer tip is by applying a disinfectant (e.g. 70% medical alcohol) with a damp cloth. The thermometer should be disinfected before each use.

This thermometer is guaranteed waterproof and can therefore be immersed in liquid or lukewarm water for through cleaning and disinfection.

Safety precautions

- Do not allow the device to come into contact with hot water.
- Do not expose to high temperatures or direct sunlight.
- Performance may degrade if the product is operated or stored outside of the stated temperature or humidity ranges, or if patient temperature is below ambient temperature.
- Do not drop the thermometer. It is neither shock-proof nor impact-resistant.
- Do not modify this device without the authorization of the manufacturer.
- Do not bend or open the device (except the battery compartment).
- Do not clean with thinners, petrol or benzenel. Only clean with water or disinfectant.
- Do not immerse the Waterproof thermometers under water 15cm for longer than 30 minutes.
- The thermometer contains small parts (battery, battery compartment) which can be swallowed by children. For this reason, do not leave the thermometer with unattended children.
- Avoid bending the flexible thermometer tip by more than 45 degrees.
- If the ambient temperature is over 35°C or 95°F, dip the thermometer tip in cold water for approx. 5 to 10 seconds prior to measuring the temperature.
- Persistent fever, in particular in children, has to be treated by a doctor - please get in touch with your doctor!
- Do not use near strong electromagnetic fields, i.e., keep it away from any radio systems and mobile phones.

Battery replacement



The battery is empty and needs replacing when the " ▭ " symbol flashes on the LCD.

1. Put a coin into the battery cover groove as the fig shows, then counterclockwise rotation.
2. Open the battery cover, and remove the battery.
3. Insert a new CR2032 battery with the "+" symbol visible then replace the battery cover by rotating clockwise.

Product disposal

Please ensure environmental protection. Batteries do not belong in the domestic waste. Please hand them in at collection point or the municipal recycle material centre as special waste. The alkaline battery or fuel cell may lead to excessive temperatures, fire or explosion. This symbol on products and/or accompanying documents means that consumed electronic products must not be mixed with conventional domestic waste. Take these products to the corresponding collection points for correct treatment and recycling, where they will be accepted free of charge. For more information on the closest collection point, please enquire with your local authorities.

Technical data

Type:
Maximum thermometer
Measurement range:
(32.0~ 42.9)°C/(89.6~109.2)°F
Measurement accuracy:
+/-0.1°C/0.2°F(35.5°C~42.0°C/95.9°F~107.6°F)
+/-0.2°C/0.4°F(32.0°C~35.5°C, 42.0°C~42.9°C
/89.6°F~95.9°F, 107.6°F~109.2°F)
Storage/transportation temperature:
(-25~55)°C, ≤95%RH
Ambient temperature during use:
(5~35)°C, ≤80%RH
Min Scale:
0.1°C/0.1°F
Atmospheric pressure:
700~1060hPa
Battery type:
Lithium battery, type CR2032, 3.0V, service life minimum 100 hours under continuous operation.
Weight:
Approx. 24g

Explanation of symbols

- Battery is empty
- Product disposal instructions for electronic devices
- Read IFU carefully
- CE conformity marking
- Follow instructions for use
- Importer's information
- European authorised represnetitive
- Serial Number
- Type BF equipment
- Lot number
- Stand by
- Manufactured by
- Date of Manufacture and Made in China
- Catalogue Number / Model Number
- Medical Device
- Recyclable

Legal requirements and guidelines

This product complies with the European Directive for Medical Devices 93/42/EEC and carries the CE mark. The device also complies with the specifications of the European Standard EN 12470-3 Clinical thermometers-Part 3: Performance of compact electrical thermometers (nonpredictive and predictive) with maximum device. The CE marking confirms that this is a medical device with a measuring function in the sense of the Medical Devices Act which has undergone a conformity assessment procedure. A Notified Body confirms that this product fulfils all the appropriate statutory regulations.

Calibration check

This thermometer is initially calibrated at the time of manufacture. If this thermometer is used according to the operation instruction, periodic re-adjustment is not required.

The calibration check has to be carried out immediately, if there are indications that the product does not keep the defined error limits or the calibration properties could have been affected by an intervention or by any other means. Please also observe any national statutory regulations. The calibration check can be carried out by the competent authorities or by authorised service providers. A test instruction for calibration check can be provided to the relevant authorities and authorised services providers on request.

Warnings and information for batteries

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Unfortunately, it is not obvious when a button or coin battery is

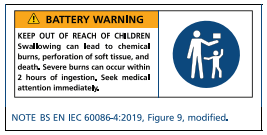
stuck in a child's oesophagus (food pipe). There are no specific symptoms associated with this. The child might:

- cough, gag or drool a lot;
- appear to have a stomach upset or a virus;
- be sick;
- point to their throat or stomach;
- have a pain in their abdomen, chest or throat;
- be tired or lethargic;
- be quieter or more clingy than usual or otherwise "not themselves";
- lose their appetite or have a reduced appetite; and
- not want to eat solid food / be unable to eat solid food.

These sorts of symptoms vary or fluctuate, with the pain increasing and then subsiding.

A specific symptom to button and coin battery ingestion is vomiting fresh (bright red) blood. If the child does this seek immediate medical help.

The lack of clear symptoms is why it is important to be vigilant with 'flat' or spare button or coin batteries in the home and the products that contain them.



Warranty

This product is warranty for 1 year from the date of manufacture. Damage resulting from incorrect use or abuse is not covered by the warranty. Battery and packaging are excluded from the warranty. Claims beyond this, including claims for damages, are excluded. If you find that the thermometer is defective and not in good function, please firstly check the battery before sending in for repair. The manufacturer will make available on request circuit diagrams, component part lists, descriptions, calibration instructions, or other information that will assist service personnel to repair those parts of device.

Electromagnetic compatibility information

This device is suitable for home healthcare environment and professional healthcare facility environment WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Essential Performance: The Laboratory Accuracy within the rated output range in normal use is within ±0.3°C.

Do not use mobile (cellular) telephones and other devices, which generate strong electrical or electromagnetic fields, near the medical device. This may result in incorrect operation of the unit and create a potentially unsafe situation. Recommendation is to keep a minimum distance of 30cm. Verify correct operation of the device in case the distance is shorter.

WARNING: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

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Recommended minimum separation distances

Nowadays, many RF wireless equipments have being used in various healthcare locations where medical equipment and/or systems are used. When they are used in close proximity to medical equipment and/or systems, the medical equipment and/or systems' basic safety and essential performance may be affected. This device has been tested with the immunity test level in the below table and meet the related requirements of IEC 60601-1-2:2014. The customer and/or user should help keep a minimum distance between RF wireless communications equipment and this device as recommended below.

Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)	Immunity test level (V/m)
385	380-390	TETRA 400	Pulse modulation 18Hz	1.8	0.3	27
450	430-470	GMRS 460 FRS 460	FM ± 5 kHz deviation 1 kHz sine	2	0.3	28
710	704-787	LTE Band 13, 17	Pulse modulation 217Hz	0.2	0.3	9
745						
780						
810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18Hz	2	0.3	28
870						
930						
1720	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217Hz	2	0.3	28
1845						
1970						
2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217Hz	2	0.3	28
5240	5100-5800	WLAN 802.11 a/n	Pulse modulation 217Hz	0.2	0.3	9
5500						
5785						

Guidance and manufacture's declaration – electromagnetic emissions

The device is suitable for use in the specified electromagnetic environment and it has meets the following standard's emission requirements.

Phenomenon	Profession healthcare facility environment	Home healthcare environment
Home healthcare environment	CISPR 11, Group 1, Class A or B	CISPR 11, Group 1, Class B
Harmonic distortion	IEC 61000-3-2, Class A or not applicable	NA
Voltage fluctuations and flicker	IEC 61000-3-3 or not applicable	NA

Guidance and manufacture's declaration – electromagnetic immunity

The device is suitable for use in the specified electromagnetic environment and it has meets the following immunity test levels. Higher immunity levels may cause the device's essential performance lost or degraded.

Phenomenon	Basic EMC standard or test method	Professional healthcare facility environment	Home healthcare facility environment
Electrostatic discharge	IEC 61000-4-2	+/- 8 kV contact +/- 2 kV, +/- 4 kV, +/- 8 kV, +/- 15 kV air	
Radiated RF EM fields	IEC 61000-4-3	3V/m 80MHz-2.7GHz 80%AM at 1kHz or 2Hz	10V/m 80MHz-2.7GHz 80%AM at 1kHz or 2Hz
		1kHz or 2Hz can be specified by the manufacturer	
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	See the RF wireless communication equipment table in "Recommended minimum separation distances".	
Rated power frequency magnetic fields	IEC 61000-4-8	30A/m; 50 Hz or 60Hz	
Electric fast transients bursts	IEC 61000-4-4	NA	
	For input a.c. power port d.c. power lines or signal input/output lines whose length exceeding 3m		
Surges	IEC 61000-4-5	NA	
	For 1.input a.c. power port; 2. all d.c. power ports connected permanently to cables >3m 3. output signal output lines connected directly to outdoor cables		
Conducted disturbances induced by RF fields	IEC 61000-4-6	NA	
	For 1. input a.c. power port; 2. all d.c. power ports connected permanently to cables >3m 3. all patient-coupled cables 4. SIP/SOP whose maximum cable length ≥ 3m		
Voltage dips	IEC 61000-4-11	NA	
Voltage interruptions	IEC 61000-4-11	NA	
UT: rated voltage(s); E.g. 25/30 cycles means 25 cycles at 50Hz or 30 cycles at 60Hz			