**INSTRUCTIONS FOR USE**

**DIGITAL CLINICAL THERMOMETER**

**KD-118**

**FEATURES**

- Easy to read digital LCD (liquid crystal display).
- Compact, accurate, and durable LED light (large scale integration) device.
- Temperatures can be taken under the tongue (oral use) or under the arm (axillary use).
- It is suggested that real-time temperatures be taken on infants and toddlers when axillary use is inconvenient.
- Very sensitive device, quick to obtain results.
- The thermometer is immediately set on after temperature stabilization, it will automatically shut off in about 3 minutes.
- Small, light weight (11 grams) easy to store in the whole bag. Especially ideal for children.
- ABS resin body presents no hazard compared to broken mercury glass thermometers.
- Low battery indicator: when the symbol "**E**" appears, the battery needs to be replaced.

**PARTS DESCRIPTION**

- **Sensor**
- **Display Window**
- **ON/OFF Button**
- **Battery Cover**

**SPECIFICATION**

**Range**  
68°F to 109°F (32°C to 43°C)

**Resolution**
0.1°F (0.1°C)

**Accuracy**

- ±0.1°F (98.0°F - 102°F)  
- ±0.3°F (96.4°F - 97.9°F)  
- ±0.2°F (37.0°C - 37.9°C)

**Display**
Liquid crystal display 3.12 digits

**Battery (included)**
Micro Alkaline battery 2x1.5V

**Power Consumption**
0.15mA in measurement mode

**Battery Life**
More than 200 hours of continuous operation

**Dimensions**
130mm x 16.9mm x 9.9mm

**Weight**
Approx. 11 grams including battery

** overseas use **

**Battery**: approx. 3 sec sound signal when peak temperature reached

**Working Conditions**
Temperature: 50 to 104°F (10 to 40°C)
Relative Humidity: 10 to 90% non condensing

**Storage Conditions**
Temperature: -13 to 131°F (-25 to 55°C)
Relative Humidity: 10 to 92% non condensing

**Guarantee of Quality**
CE: ISO 13485:2003
Product Classification: Type BF1 (mild)

**PRECAUTIONS**

1. Do not boil the product. Instead, clean the unit by wiping it with a dry cloth and disinfect the probe with isopropyl (rubbing) alcohol.
2. Do not immerse the thermometer or expose it to heavy shock. The unit is not shock-proof.
3. Do not bend or bite the probe. 
4. Do not store the unit under direct sunlight. At a high temperature, in high humidity or dust. Performance may be degraded.
5. Do not use the thermometer if it operates erratically or if the display malfunctions.
7. Clean the thermometer probe before storing.
8. Do not attempt to disassemble the unit as this will void the warranty.
9. If the thermometer has been stored at below freezing temperatures, allow the thermometer to warm naturally to room temperature before using.
10. Performance of the device may be degraded if operated or stored outside stated stated temperature and humidity ranges or if the patient’s temperature is below the ambient temperature.

**BATTERY REPLACEMENT**

1. When the symbol "**E**" appears, the battery needs to be replaced.
2. Pull out the battery cover in the direction shown.
3. Pull out the battery holder slightly and clean the battery contacts and also those of the device prior to battery replacement.
4. Replace a new 1.55V button size battery, type LR41 or equivalent into the battery compartment of the unit.
5. Replace the battery cover securely.

**HOW TO USE**

1. Diagnose the probe with isopropyl (rubbing) alcohol before using.
2. Depress the on/off button. The display will read "**E**".
3. Release the power switch and the display will show "**E**" or "**F**" or "**C**". 
4. Place the probe in the appropriate position (oral, axillary or rectal).
5. Once the device is set to "**F**" (C) (the display has F or C flashing), the correct temperature is indicated. The temperature read will not change after the "**F**" stops flashing.
6. The unit will automatically turn off in 3 minutes. However, if new battery is installed, this time period may be extended.

**RELIABLE METHODS TO MEASURE TEMPERATURE**

**THE TAKING OF BODY TEMPERATURES**: Change in body temperature is one of the most important indicators of illness. It is important that accurate temperatures be taken. Even though the digital thermometer is used in similar manner to the glass thermometer, it is important that the simple instructions for use of this thermometer be followed closely and that the person taking the temperature understands body temperature.

**BORDER TEMPERATURE**: A person’s body temperature will usually be several tenths to one full degree lower in the morning than in the late afternoon. Therefore, if your temperature is 97.3°F (36.3°C) in the morning, it could be 98.4°F (36.8°C) or more in the late afternoon and still be normal. To determine what your normal body temperature is, you should take your temperature both in the early morning and in the late afternoon over several days. Chilren have the same normal temperature range as do adults. A fever for both fevers and adults is typically defined as over 99.5°F (37.5°C). For infants, a fever is caused by excess clothing, hot bath, hot weather, warm food and drink can cause a rise in body temperature of up to 100°F (37°C) to 101.7°F (38.6°C) in oral temperature. As your body temperature rises, it is important to watch for signs of shock, such as rapid breathing, panting, nausea, vomiting, diarrhea, and/or a change in the color of the urine.

**RECTAL USE**

If rectal temperature is recommended by your doctor, you may use a probe retractor. Insert thermometer into the anus with the tip of the thermometer probe. Place the thermometer probe in a water soluble jelly for easier insertion. Do not use petroleum jelly. Insert tip of probe no more than 1/2 inch into rectum. STOP if you meet any resistance. This contact is on the very tip of the probe and there is no need to insert the probe deep into the rectum. In general, the rectal temperature is around 1.0°F (0.5°C) lower than oral temperatures. If you are using a digital thermometer, the rectal temperature is around 1.0°F (0.5°C) lower than oral temperatures.

**AXILLARY USE**

Wipe arm with a dry towel. Place probe in the patient’s armpit and keep the patient’s arm pressed firmly against the body. In general, the axillary temperature is around 0.5°F (0.3°C) lower than oral temperature. Note that in order to achieve better axillary temperature measurement result, a minimum measuring time of 2-3 minutes is recommended regardless of the body size.

**CLEANING INSTRUCTIONS**

To clean the thermometer, wash the tip with a solution of mild detergent and cool water. (Note that the tip area below the LCD can be washed.) The thermometer can also be disinfected by wiping the sensor and lower stem with a cloth dipped in a household antiseptic solution such as rubbing alcohol.

**LIMITED WARRANTY**

1. The thermometer is warranted against manufacturer’s defect under normal, household use. Follow the directions closely will ensure years of dependable operation.
2. If the thermometer does not function properly, please return to the nearest service facility. Our representative will provide further instructions on how to correct the trouble or will ask you to return for repair or repair/replace.

**FCC STATEMENT**

**NOTE**: 

- **POTENTIAL FOR RADIOFREQUENCY INTERFERENCE** (for U.S.A. Only)

- **Operation is subject to the following two conditions**: 1) This device may not cause harmful interference and 2) This device must accept any interference, including interference that may cause undesired operation.

- This product has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The product generates, uses, and can radiate radio frequency energy, and, if installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the product does cause harmful interference to radio or television reception, which can be determined by turning the product on and off, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna
  - Increase the separation between the product and the receiver
  - Consult the dealer or an experienced TV technician for help.

- Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

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