Digtal Clinical Thermometer

Instructions for Use

KD-135

Please read carefully before using

Features
1. Easy to read digital LCD (liquid crystal display).
2. Compact, accurate and durable LSI (large scale integration) device.
3. Temperatures can be taken under the tongue (oral use) or under the arm.
   (axillary use). Accurate oral and rectal temperatures can be taken on infants only when
   axillary use is inconvenient.
4. Very sensitive device, quick to obtain results.
5. If the thermometer is inadvertently dropped or after temperature stabilization, it will
   automatically shut off in about 3 minutes.
7. ABS resin body presents no hazard compared to broken mercury glass
   thermometers.
8. Low battery indicator: when the symbol “O” appears, the battery needs to be replaced.

Parts Description

Display Window
ON/OFF Button
Battery Cover
Sensor

Specification

Range
93°F to 109.9°F (32.9°C to 43.9°C)
Below 90°F (32°C) displays “-” symbol.
Alarms: 109.9°F (32°C) displays “F” symbol.
Resolution
0.1°C
Accuracy
±0.5°F (±0.2°C) at 95°F (35°C)
±0.3°F (±0.1°C) at 98.6°F (37°C)
±0.4°F (±0.2°C) at 100°F (38°C)
±0.6°F (±0.3°C) at 102°F (39°C)
±0.6°F (±0.3°C) at 104°F (40°C)
±0.9°F (±0.5°C) at 106°F (41°C)
±0.9°F (±0.5°C) at 108°F (42°C)
±0.9°F (±0.5°C) at 110°F (43°C)
Display
Liquid crystal display 3 1/2 digit
Battery (included)
9V alkaline battery (141, 192 or Silver Oxide battery 392, 394, 394L, 1.5V)
Power Consumption
<10 mW per year
Battery Life
More than 200 hours of continuous operation
Dimensions
127mm x 22mm x 10mm
Weight
Approx. 11 grams including battery
Beep
Approx. 8 Second audible sound signal when peak temperature reached
Warning Conditions
Temperature: 60 °F (15°C) – 104 °F (40°C)
Relative Humidity
15% – 95% non condensing
Storage Conditions
Temperature: -13 °F (-25°C) – 140 °F (60°C)
Relative Humidity
15% – 90% RH non condensing
Guarantee of Quality
Cert. CE01848, Complies w/ASTM E-1112, E-1247-93, EN60601-1
Product Type
Fever Thermometer

Precautions

1. Do not boil the probe. Instead, clean the unit by wiping it with a dry cloth and disinfected
   the probe with isopropyl alcohol.
2. Do not drop 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. Stop using 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 except to replace the battery.
9. If the thermometer has been stored at below-freezing temperatures, allow the
   thermometer to warm normally to room temperature before using.
10. Performance of the device may be degraded if. Operated or stored outside stated
    temperature and humidity ranges or if the patient’s temperature is below the
    recommended ambient temperature.

Battery Replacement

1. When the symbol “O” appears, the battery needs to be replaced.
2. Pull the battery cover in the direction shown.
3. Use a toothpick or insulated probe to remove the battery. Avoid using any sharp metal
   object in this operation.
4. Clean the battery contacts and also those of the device prior to battery re-installation.
5. Place a new 1.5V C/D/C battery. This type may not be available in all regions.
6. Open the package and remove the battery.
7. Replace and test the battery cover securely.

Warning:
Discard old battery correctly, out of reach of young children. Swallowing the battery may be
fatal if the battery is swallowed, contact hospital immediately to turn it off. In case of
contact with the battery on the eye, it may cause serious injury.

How to Use

1. Disinfect the probe with isopropyl (rubbing) alcohol before using.
2. Disregard the small box. The display will read 888 or 888.
3. Roll the probe with the power switch on.
4. Place the probe in the appropriate position (oral, axillary or rectal).
5. If the device is charged, the display will show “LO” for approximatley 8 seconds.
6. The device will automatically turn off in 6 minutes (approx.) to conserve battery life.
7. The unit will automatically turn off if off in 3 minutes (approx.). However, to prolong battery life,
   it is best to turn off the thermometer once the temperature has been noted.

Special Notice

Temperature Alarm: An alarm will sound when the peak temperature has registered
for 5 seconds. An alarm (four beeps followed by a pause) will sound repeatedly for approximately 8 seconds.

Last Temperature Memory Recall: When the ON/OFF button is depressed to activate the
thermometer, hold down for approximately 5 seconds. The display of 99.8 °F will change to
show the last measured temperature. The reading is displayed as long as the button is held
down. When the button is released, the thermometer will be in “ready-to-measure” mode and
the recorded temperature of 99.8 °F erased.

For Patients with Fever Alerts: If the temperature registers higher than 99.8 °F(37.2°C), the fever alert
will appear as a slow beep 8 times a second for about 10 seconds and then the peak temperature
is registered.

To change the scale from Fahrenheit (“F”) to Centigrade (“C”). After turning the thermometer on,
immediately press the “ON/OFF” button again and release. The “F” changes to “C”.
Once the display shows “C” with a flashing “C”, the thermometer has successfully changed from
Fahrenheit to Centigrade.

NOTE: Always dislodge the thermometer before using.

NOTE: In Step 2, the room temperature is greater than 90°F (32°C), it will be displayed
rather than 99.8°F (37.2°C).

NOTE: In Step 5, you may put a sanitary plastic probe shield on the sensor tip to help prevent
contamination and contamination, use of the probe cover may result in 0.2°F (0.1°C)
difference from actual temperature. Dispose of any used probe shield and store the
unit in a safe place.

Reliable Methods to Measure Temperature

The Taking of Body Temperature: Changes in body temperature is one of the most
important indicators of illness. The important that accurate temperature is taken, even
though the digital thermometer was 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.

Body Temperature: A person’s body temperature is usually within 0.2°F (0.1°C) to one full
degree lower in the morning than it is in the late afternoon. Therefore, if your temperature is
97°F (36°C) in the morning, it could be 98.4°F (37°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 several days. Children
have the same normal temperature range as do adults. Fever for both children and adults is
typically defined as a temperature over 99.5°F (37.5°C) (oral reading). Exercise, excessive
dressing, not eating, not wearing warm clothes to drink can cause millibilities of up to
100.4°F (38°C) to 101.2°F (38.4°C) in oral temperature. If you suspect one of these to be the
cause of an elevated reading, immediately the possible cause and reduce the temperature in
half hour.

Oral Use

Place the probe well under the patient’s tongue. instruct the patient to keep their mouth
shut while the thermometer is reading. A normal temperature by this method is usually
considered between 98.8°F to 98.9°F (36.6°C to 37.5°C).

Rectal Use

Insert the thermometer into the probe shield. Insert the probe cover with a water soluble jelly
for easier insertion. Do not use petroleum jelly. Insert tip of probe no more than 1 1/2 inch
into rectum. STOP if you meet any resistance. Do not rotate tip of the probe and
there is no need to insert the probe deep into the rectum. In general, the rectal temperature
is around 0.1°F to 0.2°F (0.1°C to 0.2°C) lower than the oral temperature.

Axillary Use

Place the probe in the armpit and keep the patient’s arm pressed firmly against the body. In general, the armpit temperature is around 1.0° to
2.5°F (0.6°C to 1.4°C) lower than the oral temperature.

Axillary temperature measurement result: A maximum measuring time of 2 to 3 minutes
is recommended regardless of the body’s deep.

Cleaning Instructions

To clean the thermometer, wash it with a solution of mild detergent and water. Do not
disinfect the thermometer by wiping the sensor and lower stem with a cloth dipped in
household antiseptic solution such as rubbing alcohol.

Limited Warranty

This thermometer has a Limited Warranty against manufacture defects under normal
household use. Follow the directions closely and you will enjoy years of dependable
operation. If the thermometer does not function properly, first check the battery (see
battery replacement instructions). Replace if necessary.

If the thermometer does not function properly, please visit 180 INNOVATIONS. All 11100 West 8th Ave.
Lakewood, CO 80215 or call/buyer service at 417-748-5479. Our staff will be able to provide
instructions in an attempt to correct the situation. If a refund is to be made, you have 14 days from the date
of purchase to return your item for repair, replacement or refund.

FCC Statement

NOTE: POTENTIAL FOR RADIO/THELEVISON INTERFERENCE (for U.S.A. Only)
Operate device in the following two conditions: 1) The device does not cause harmful interference, and
2) The device must accept any interference received, 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.

Caution: This digital thermometer is not intended for professional use. In no event shall 180
INNOVATIONS be liable for any special, incidental, exemplary or consequential damages
resulting from the use of or inability to use this device.

Thank you for purchasing a 180 INNOVATIONS product.

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