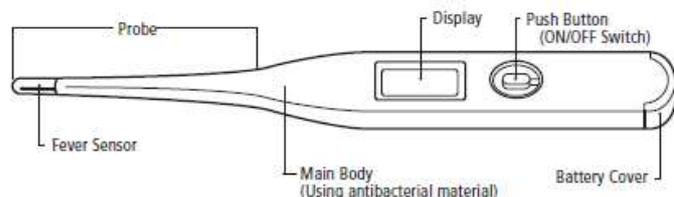


INSTRUCTION MANUAL for DIGITAL THERMOMETER

REF: **CT-513W** (WITH BUZZER & WATERRESISTANT)

PLEASE READ THIS MANUAL IN ANY CASE BEFORE USING.

PARTS NAMES



PRECAUTIONS

- Do not use this thermometer for measurements other than body temperature. The thermometer will be damaged if it is used to measure the temperature of bath, refrigerators etc.
- Do not drop the thermometer and do not expose the thermometer to heavy shock. As the thermometer is not shock-protected construction.
- Do not bend the thermometer.
- Do not bite the probe.
- Do not disassemble the unit, do not make any modifications and do not touch the circuitry.
- Do not spill chemical solvents on the unit.
- Do not store the unit in direct sunlight, not at high temperature and not at a high degree of humidity or dust.
- Do not boil the probe.
- Do not use the thermometer if it operates irregularly or shows signs of malfunction.
- Do not use thinner or benzine.
- When using the thermometer after storage at low temperature, place it in a warm place for 5 to 10 minutes before use.
- Keep the thermometer out of reach of children.
- Wipe the thermometer clean before storing.
- In order to measure the temperature more appropriately, hospitals recommend to require times, in case of the mouth (oral) measurement for over 6 minutes and in case of the underarm (axillary) measurement for over 10 minutes.
- When discarding the thermometer or battery, please observe any local waste disposal regulations currently in force in your area.

IMPORTANT DATA

Measurement method:	Temperature peak hold thermometer
Measurement range:	32°C–42°C
Accuracy:	±0.1°C between 35.5°C and 42°C at an ambient temperature of 18°C to 28°C
Display:	3 digits with decimal point, M (Memory mark), °C (°C indicator) DC 1.5V (—): Direct current
Rated voltage:	Approx. 3 years (If used 3 times a day, for 10 min. each time)
Battery life:	Approx. 10g (Include battery)
Weight:	Temperature 10 to 40°C, Relative humidity 30 to 85%
Operating environment:	Temperature –20°C to 60°C, Relative humidity 10 to 95%
Storage/transport environment:	Internal power unit
Electrical shock protection:	▲ Type B equipment
Safety classification	This products complies with EC instructions 93/42/EEC (Medical Device Directive) and with the following standard EN12470-3.
Reference European standard:	

⚠ Attention, consult accompanying documents.

HOW TO OPERATE

- Turn unit on by depressing the push button. The unit will beep.
- You will see the following display, serving the function check.

All segment displays:

and then the last measured value will be on the display:

in case there is no last measured value stored, the display will appear as:

- After the last measured value normally appears:

i.e. temperature below 32°C.



If the temperature is above 42°C, appears:



- Now carry out the measurement.

A: Measurement in the mouth (oral):

Place the thermometer under the tongue and close the mouth. As long as the measurement is not stable yet, the °C-indicator flashes. If the temperature is constant in one digit after the point, the °C-indicator stops flashing. The temperature sensor buzzer generates rapid beeps to indicate that the temperature is accurately measured. After starting of measurement for about 1 minute, the beeping sound will be heard. And then wait for **3 minutes or more** before checking the temperature.

Switch off the thermometer. If the thermometer is not switched OFF by you, it will switch off automatically after about 10 minutes.

Wipe the thermometer with a dry cloth before putting it back into the hard case.

B: Underarm measurement (axillary):

To confirm the underarm should be dry and the fever sensor should be inserted into the center of the underarm with contacting tightly to a skin. And then your arm should be put on the chest tightly. After starting of measurement for about 5 minutes, the beeping sound will be heard. And then wait for **3 minutes or more** before checking the temperature.

THERMOMETER BUZZER

- When the thermometer stops rising by increments that are 0.1°C or less during a 16 second temperature measurement, the buzzer sounds (repeated beeps) 4 times for a duration of 4 seconds. This buzzer indicates that the measured value is close to body temperature but not that the temperature measurement is completed. Therefore do not remove the thermometer when you hear the buzzer, but wait 3 minutes before checking the temperature reading.
- The skin temperature will still gently rise after the buzzer sounds. Therefore take the necessary time to obtain an accurate temperature reading.
- When the sensor temperature drops because the sensor is accidentally moved or shifted from the place of measurement before the buzzer will sound. Then check the place of measurement and make a new measurement correctly.

MEMORY FUNCTION

The unit stores the last displayed peak value even if the thermometer is switched off. For reading the stored value, switch on after the all-segment display, the stored value will be displayed, with the additional indicator "M" below the °C-mark.

BATTERY

If the display segments appear to be blinking, the battery has to be replaced. Before such replacement the unit should not be used any more, since a probe function is not ensured.

BATTERY REPLACEMENT

- Push the hook placed in the click hole (which is located back side of the thermometer) with a minus screw driver and slide the battery cover off.
- Remove the exhausted battery and insert a new battery the same way. Make sure that the plus side shows when the battery is in place.
- Replace the battery cover as the same direction before the replacement of battery.

Caution:

Swallowing the battery may be fatal. If the battery has been swallowed, contact a hospital immediately and have it removed. Do not throw the battery into a fire. It may explode. Do not recharge the battery, do not disassemble or short-circuit it.

CLEANING

Clean the housing of the thermometer with ethyl alcohol or a neutral detergent, using a cloth. (Don't use thinner or benzine.)

CALIBRATION CHECK

We recommend a calibration check for instruments used professionally, e.g. at clinics according to any national statutory regulations, if any.

OTHER INFORMATION

Manufacturer

Name: **CITIZEN SYSTEMS (H.K.) LIMITED**
Address: Flat A-B, 4th floor, Hung Mou Industrial Building,
62 Hung To Road, Kwun Tong, Kowloon, Hong Kong

European Representative

Name: WVV elektronische Geräte Vertrieb GmbH.
Address: Robert-Koch-Straße 20 D-80538 München, GERMANY

WEEE

If you want to dispose this product, do not mix with general household waste. There is a separate collection systems for used electronics products in accordance with legislation under the WEEE Directive (Directive 2002/96/EC) and is effective only within European Union.



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CITIZEN SYSTEMS JAPAN CO., LTD.

6-1-12, Tanashi-cho, Nishi-Tokyo-Shi, Tokyo 188-8511, Japan
E-mail: sales-oe@systems.citizen.co.jp <http://www.citizen-systems.co.jp>



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