

Wireless Temperature Monitor



Model No.: IN4-ST323
Operation Manual
Please Read Carefully Before Using



Thank you for purchasing IN4 Care Wireless Temperature Monitor.
Before you start using this unit, please read this operation manual thoroughly.

Introduction

Congratulations! On the purchase of our new Wireless Temperatures Monitor. You may now "Rest Assured" of your loved one's temperature either up close or from a distance, even from another room!

Wireless temperature monitor is a newly innovative medical device intended for remote monitor of the armpit temperature up to 100 hours continuously for patients of 3 years older to adult when they are developing fever. The device consists of two units: the transmitter and the receiver. The transmitter functions as the unit not only to monitor the armpit temperature but also to transmit the temperature measured to the receiver that is remotely located by about 160 feet away. The receiver functions as the unit to receive the transmitted temperature signal from the transmitter and display on the LCD screen the temperature monitored.

The receiver can automatically register the temperature in the memory at an interval of every 30 minutes since the beginning of monitoring. The care taker can set the alarm for upper and lower temperature limits of the monitored armpit temperature. If the monitored temperature exceeds the set limit, either upper or lower, the receiver will begin to alarm and flash to alert the care taker for taking proper action in response to the alarm.

The device is also designed to function as a regular clock and ambient thermometer when armpit temperature monitor is dysfunctional. Also the receiver is equipped with the backlight function for easy night reading.

The device is already approved by FDA and the CE mark is obtained as well. The technology is proprietary and the patent application to the US Patent and Trademark office is already submitted.

Specifications

Size :	Transmitter : 57.0 x 40.7 x 18.4 mm Receiver : 72.4 x 23 mm
Weight :	Transmitter : approx. 36g (1.21oz) (without battery) Receiver : approx. 44.2g (1.21oz) (without battery)
Product Material :	Transmitter : ABS Receiver : ABS
Type of Batteries :	Transmitter : 3V x 1 (CR2032) Receiver : AAA / 1.5V x 2
Life of Batteries :	Transmitter : Approx. > 100hrs Receiver : Approx. > 100hrs
Backlight :	Backlight will be ON for 5 sec. when you press any button
Effective Distance for Transmission and Reception :	160 feet distance (approx.50M) in an open space. If there are objects in that space, the transmission distance will be affected.
Range of Temperature Settings :	10.0°C ~ 43.0°C (50.0°F~ 109.4°F)
Temperature Accuracy :	±0.1°C / 0.2°F between 32°C ~ 43.0°C (89.6°F ~ 109.4°F) ±0.5°C / 1.0°F beyond above range
Storage environment :	Transmitter / Receiver Ambient temperature : -10.0°C ~ 60.0°C (14.0°F ~ 140.0°F) Humidity : 30% -80% RH
Temperature Measurement Interval :	Transmitter measures body temperature once every 15 seconds.
Transmitting Signal :	When transmitter detects body temperatures exceeding the High-Low range three (3) times in a row, it transmits a signal to the receiver to sound an alarm.
Sound of Receiver Alarm :	Low : Long Bi-Bi-Bi (repeats 6 times) High : Short Bi-Bi-Bi (repeats 6 times)
Memory Function :	200 sets

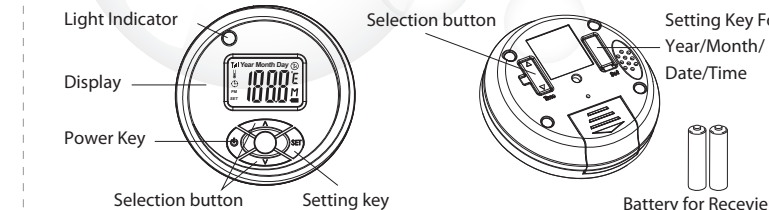
Safety Notes

Warning

- Before you start using this unit, please read this operation manual thoroughly for the correct operation procedures.
- This device is not waterproof and must never be submersed in any liquid.
- Do not drop or disassemble the units.
- Avoid exposing the thermometer to direct sunlight, high temperature, moisture or dirt.
- If the unit will not be used for a long time, it is recommended that the battery is removed and stored from the reach of children.
- If the unit becomes contaminated, clean it with a damp cloth.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
- The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

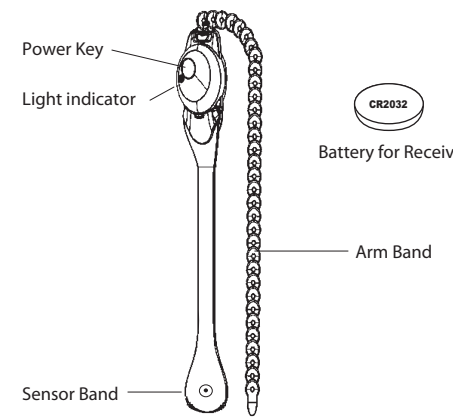
Product Descriptions

Receiver group



Introduction

Transmitter group:



Icon Index

	When you see this Icon on the display, press "▲" or "▼" button to switch °C to °F or °F to °C.
	When you see this Icon on the display, press "▲" or "▼" button to set high temperature (fever alarm point) .
	When you see this Icon on the display, press "▲" or "▼" button to set low temperature limit (fever receding point) .
	When you see this Icon on the display, this unit is on "alarm" status, press "▲" or "▼" button to select buzzer on or off.
	When you see this Icon on the display, this unit is on "memory" function, press "▲" or "▼" button to clear memory function. select buzzer on or off.
	When you see this Icon on the display, this unit is on "Wireless Temperatures Monitor" mode.
	When you see this Icon on the display, this unit is on "ambient Temperatures Monitor" mode.
	When you see this Icon on the display, this unit is on temperatures setting mode.
	When you see this Icon on the display, this unit is on clock sitting mode.
	Indicates low battery on the receiver when the LCD shows a battery signal.
	If receiver doesn't receive signal from transmitter in successive 1 minute.

Responding to Temperature Alarm

After the receiver sounds the alarm, it will continue ringing unless the receiver is switched off (alarm can be temporarily turned off by pressing ON/OFF on the receiver once, but the alarm will start again after 15 seconds.)

Caution: It is dangerous to automatically switch off the receiver alarm without first finding out why it sounded in the first place and taking any necessary action. Doing so makes the caretaker forget the importance of taking immediate action for the ill patient. The correct procedure is:

- Hear the receiver alarm sounding.
- Turn off "alarm" by press any button on the receiver
- Go to the patient immediately.
- Provide proper care to the patient.
- Reset or turn off the receiver if necessary

Alarm	Reason	Status
BiBi—BiBi—BiBi	No-RF Weak antenna signal Sensor damage	When the receiver doesn't receive signal form transmitter
Short – BiBi		Temperature is higher than the fever alarm point(Hi) you set
Long – BiBi		Temperature is lower than the fever receding point(Lo) you set

Light Indicator

Receiver:

Light	Status
Green	Power on Receive signal
Orange	Alarm Short circuit of Sensor patch disconnect from sensor band Sensor patch disconnect from the armpit of patient

Transmitter:

Light	Status
Orange	Low battery

Remark: The light indicator is off in clock mode.

Battery Replacement

Transmitter:

When a battery sign appears in the transmitter LCD display, it means the battery is low and should be replaced as described below:
Important Note: Clock mode needs to be re-set after batteries replaced.

Receiver:

When Red Led light of receiver blinks, it indicates low battery condition. To replace batteries, follow the procedures described below in order to avoid causing damage.

Care and Storage

Environment of Use:

When used in an environment with obstacles in it, the effective distance of transmission will be reduced. The effective distance of reception will also be reduced when the power is low.

Storage Condition:

When the receiver is not in use, the product should be stored inside the house. Do not expose it to sunlight or place next to high temperature stove. Heat can affect the proper functioning of the batteries and electric circuit.

Removing batteries:

If the receiver is not in use, the batteries should be removed in order to conserve battery life.

Warranty

This temperature monitor carries a warranty of one year from the date of shipment. The distributor reserves the right either to repair or replace without charge necessary parts to correct defects in the material or workmanship.

The warranty does not apply to damage resulting from failure to follow the operating instructions, accidents, abuse, material or disassembly by unauthorized individuals.

Preparation Before Using

Install battery

One CR2032 (3 volt) battery

- Use a coin or a screw driver to open the battery cover by turning counterclockwise.
- Insert one battery in the battery compartment. The positive (+) side should be faced up.
- Turn clockwise to close the battery cover

Two AAA (1.5V) batteries

- Remove the battery compartment cover
- Insert two batteries in the battery compartment, as indicated.
- Put the battery cover back on.

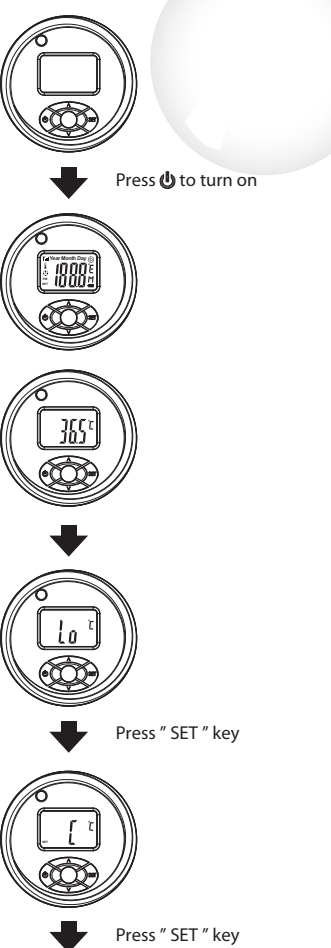
Operation

Flow Diagram for Patient Temperature Monitor

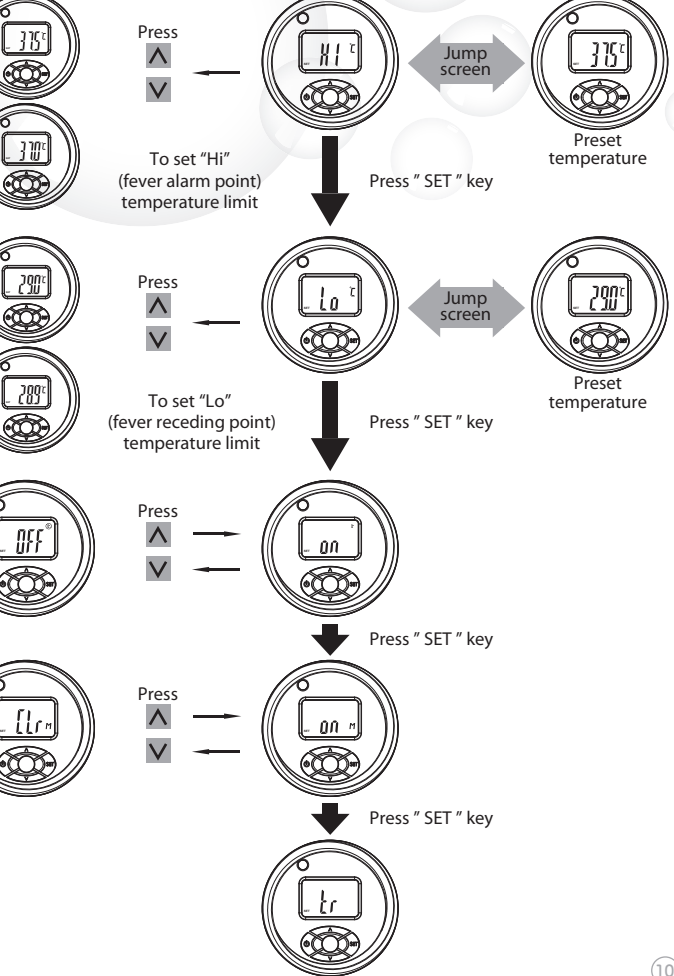
Receiver

This unit is already pre-set on temperature monitor mode, all you have to do is press the power on. Make sure the transmitter is also activated and fasten it on the patient's upper arm, peel off the cover from the sensor patch and affix the sensor patch on the patient's armpit. When above steps are ready, this unit begins to monitor armpit temperature.

08



09



10

Remark:

- ★ Pre-set temperature for Hi and Lo: 37.5°C 20.0°C

If you would like to change the High (fever alarm point) temperature, please click the set button to see below icon on the display and press "▲" or "▼" to set high temperature limit

If you would like to change the low (fever receding point) temperature, please click the set button to see below icon on the display and press "▲" or "▼" to set low temperature limit

- ★ To review memory : In transmitter monitor mode, press "▲" or "▼" retrieve the temperature and press the "set" button to retrieve the date / time. Continue the same procedure to retrieve more sets of data from previous monitor.

Transmitter (Fasten the arm band)

Step: 1 Peel of the cover from the patch and affix it around the transmitter sensor.

Step: 2 Press the button to turn on

Step: 3 Put the armband on the upper arm and adjust armband to the proper tightness.

Step: 4 Affix the patch under the armpit.

When above steps are ready, the unit begins temperature monitor.

Remark:

If oil or similar substance gets on the surface of the adhesive patch, it will not stick as well and will not last as long.

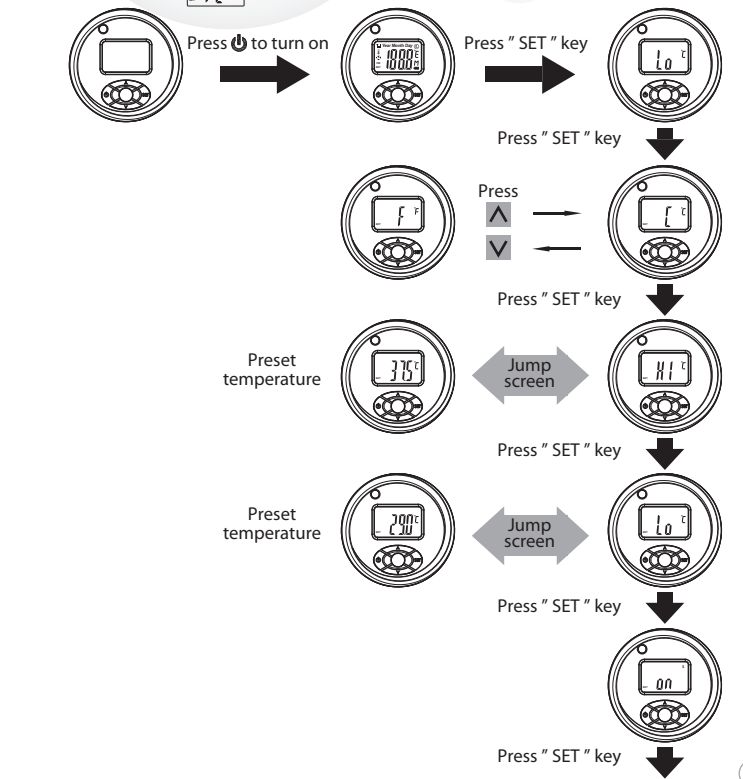
Note: The receiver should be kept with the caretaker remotely.

11

Flow Diagram of Device Ambient Temperature Monitor

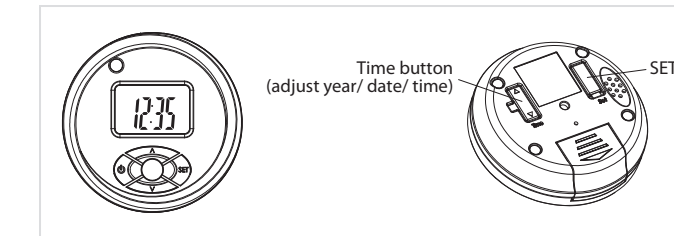
Receiver

This device can also be used for monitoring ambient room temperature whenever it is not in use for armpit temperature monitor. Follow the same procedure used for setting the receiver for patient temperature monitor as shown below until rE (rE: receiver icon) is displayed.



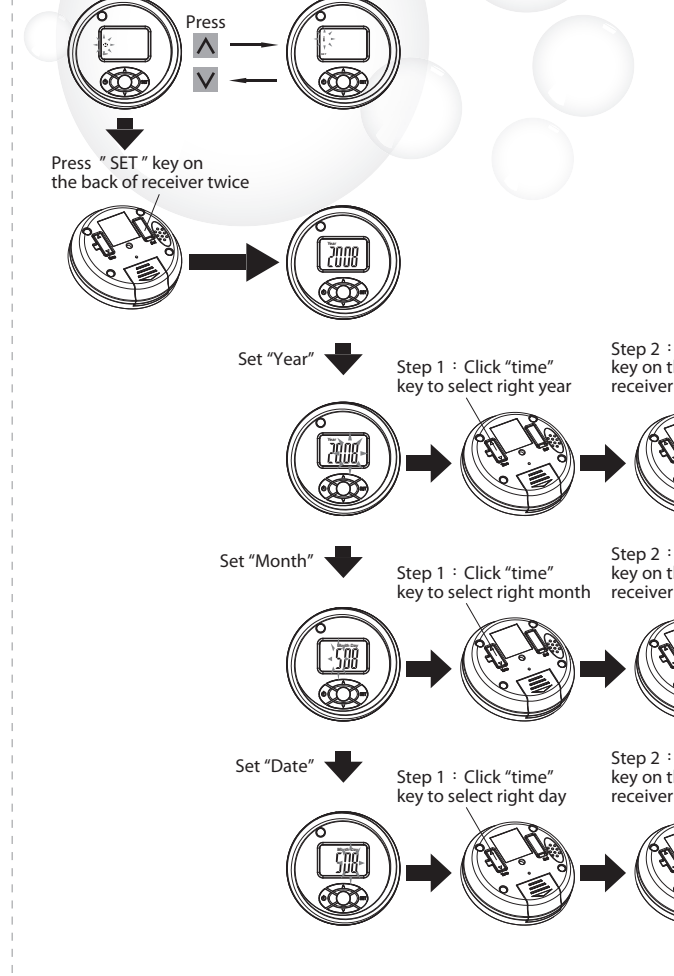
12

Flow Diagram for Clock Setting

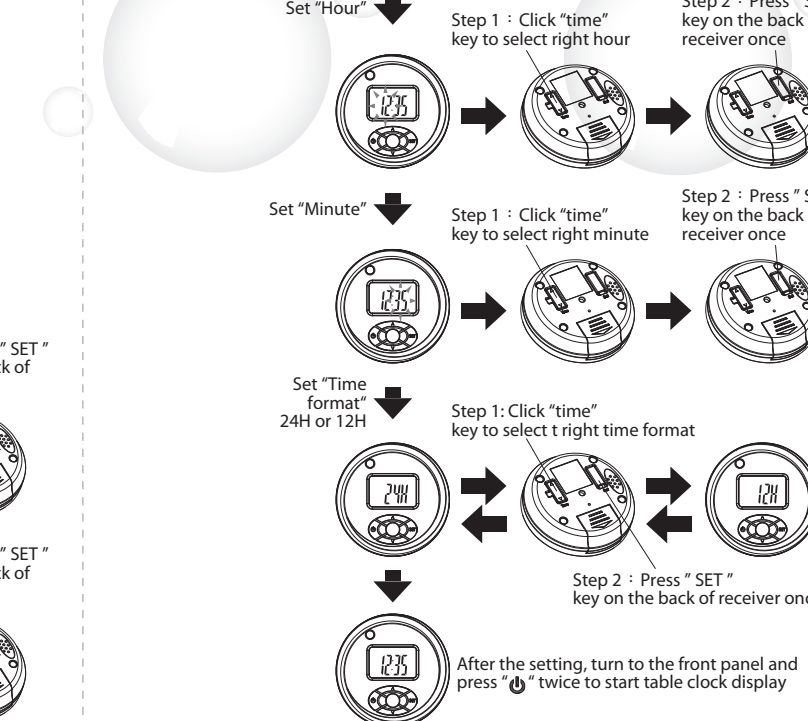


When the device is activated (press the ON button for approximately 3 seconds), click "set" button until rE appears on the display to begin clock setting as below :

13



14



Remark: Clock should be set again once the battery is replaced.

15