

Rio 101-04A Body Temperature Monitor Contents

-- Receiver x1
-- AA Battery x2
-- Operating Instructions x1
-- Screw Driver x1
-- Storage Box x1



-- Transmitter x1
-- CR2032 Lithium Battery x1
-- Adhesive Gel for Transmitter
-- Adhesive Strips x3 (each containing 9 adhesive pads)
-- Warranty Card

Key Pads & Functions

Receiver



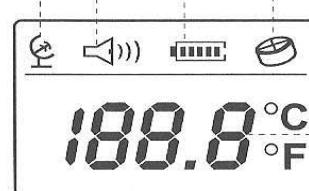
Receiver's LCD Display

Signal Problem Indicator

Abnormal Temperature Indicator

Receiver Low Battery Indicator

Transmitter Low Battery Indicator



Body Temperature

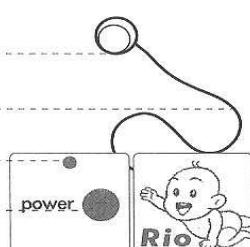
Transmitter

Temperature Sensor

Transmission Wire

LED Lamp

Power



Operations

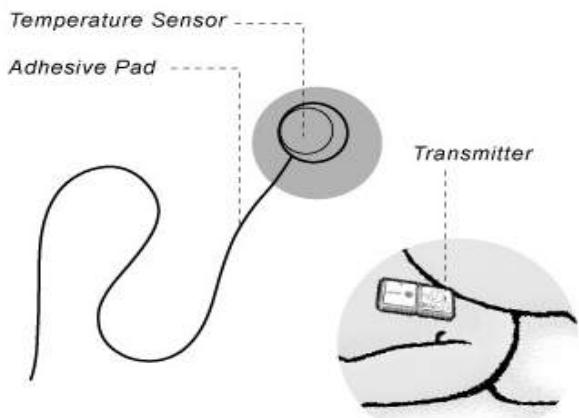
Step by Step :

STEP 1. Press POWER on the Receiver until it "Beep" in about 2 seconds. The Receiver is now ready to receive the signal from the transmitter.

STEP 2. Within 20 seconds of the Power-On of the Receiver, press POWER on the Transmitter Unit for 2 seconds. The Receiver will go "Beep, Beep" when it successfully receives the signal from the Transmitter Unit. The Receiver is now ready to receive temperature readings from the Transmitter / Sensor continuously.

STEP 3. Put the temperature sensor on the adhesive pad. Have the patient raise his / her arm. Adhere the temperature sensor under the patient's armpit.

STEP 4. Secure the Transmitter below the patient's collar bone with adhesive gel. (Do not stretch the wire between the Transmitter and the Temperature Sensor, less that either the Temperature Sensor or the Transmitter may come off.)



* How to use the adhesive gel :

Apply the adhesive gel to the back of the Transmitter, and cover it with the plastic sheet. Remove the plastic sheet to use the Transmitter. Cover the adhesive again with the plastic sheet when not in use. The adhesive can be used repeatedly 10 to 20 times.



Body Temperature Display :

The Receiver will display a reading of the patient's temperature every 12 seconds, allowing the patient's care-taker to monitor the patient's temperature all the time.

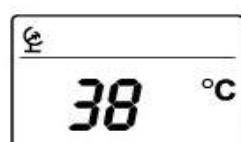
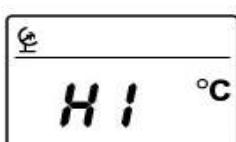
Setting Temperature Alarm :

1. Step by Step:

Set the High or Low Temperature Alarm in accordance with the patient's physical experience (characteristics) The procedures are as follow.

(1) High Temperature Setting :

A. Press ALARM on the Receiver until it "Beep, Beep" in about 2 seconds, indicating that it is now ready for temperature setting. The LCD Display will show "HI" and the present High Temperature Alarm setting alternatively, see picture :

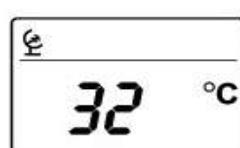
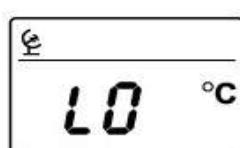


B. Press SELECT to change temperature settings. Press SELECT once to adjust the temperature 0.5°C upward. The temperature can be set to between 35 to 42°C

C. After completing the temperature setting, press ALARM again until it "Beep." The temperature is now saved as the High Temperature Alarm setting.

(2) Low Temperature Alarm :

A. After "High Temperature Alarm" is set, the LCD Display will show "Lo" and the present Low Temperature Alarm setting alternatively.



B. Within 10 seconds, press SELECT to change Low Temperature Alarm setting. (the temperature can be set to between 32 to 34.5°C) After completing the temperature setting, press ALARM again until it "Beep." The temperature is now saved as the Low Temperature Alarm setting.

- * Make sure that the battery of both the Receiver and the Transmitter / Sensor are good before setting High and Low Temperature Alarms. The "Beep" from low battery warning may interfere with High and Low Temperature Alarm settings.
- * If the SELECT Key is pressed unintentionally, within 10 seconds, the LCD Display will return to the temperature monitoring mode.
- * The High and Low Temperature Alarms are set to 38°C and 34°C respectively at the factory. They will be the High and Low Temperature Alarm Settings if not altered later on.
- * Whenever the battery is changed, the High and Low Temperature Alarm settings will be reverted to factory settings. The settings will have to be re-set to the intended settings.

(3) Adjusting only "Hi" or "Lo" Temperature Alarm:

- A. Adjusting only High Temperature Alarm Setting
 - a. Press ALARM for 2 seconds
 - b. press SELECT to change temperature setting
 - c. after completing the temperature setting, press ALARM twice. It will "Beep, Beep" to indicate the completion of the setting.
- B. Adjusting only Low Temperature Alarm Setting
 - a. Press ALARM for 2 seconds, the LCD Display will flash "Hi" and High Temperature Alarm Setting alternatively.
 - b. Press ALARM again until it "Beep." The Receiver will now be in the Low Temperature Alarm setting mode.

- c. Press SELECT to change the setting.
- d. After completing the setting, press ALARM again until it "Beep." The setting is now complete.

Displaying present High and Low Temperature Alarm Settings :

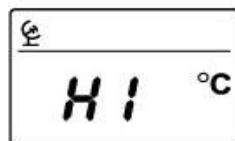
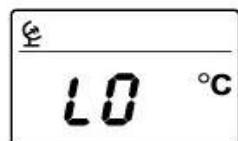
1. Press ALARM until it "Beep, Beep" in about 2 seconds, the LCD Display will show "Hi" and the present High Temperature Alarm setting alternatively.
2. Press ALARM again, the LCD Display will show "Lo" and the present Low Temperature Alarm setting alternatively.
3. The LCD Display will return to temperature monitoring mode if left alone for 10 seconds. Or, press ALARM to return to temperature monitoring mode immediately.

* High and Low Temperature Alarm settings can be changed any time.

Abnormal Temperature Alarm :

1. When temperature readings become higher than High Temperature Alarm setting or lower than Low Temperature Alarm setting, the Display on the Receiver will show a flashing  sign, and goes "Beep, Beep, Beep, Beep" continuously.

2. Press any Key to stop the Beep alarm. If not, the Receiver will continue to Beep to alert you for proper actions.
3. Even if the abnormal temperature alarm had gone off and had been canceled intentionally (by following Step 2), the device will continue to monitor and display the patient's temperature every 10 minutes. And it will still go "Beep, Beep, Beep, Beep" if the patient's temperature is still higher or lower than the High or Low Temperature Alarm settings.
4. The device will only display temperatures between 25 and 42°C. If the patient's temperature goes out of the range, the Display on the Receiver will show "Lo" or "Hi" signs as pictured :



- * When first turning on the device, because it would take some time for the device to actually measure the patient's temperature, it would start the alarm mechanism only after it has first reached the Low Temperature Alarm setting.

Power Off :

1. Press POWER on the Receiver for 2 seconds. It will "Beep" and the screen on the Display will disappear. The Receiver is now turned off.
2. Press POWER on the Transmitter for 2 seconds. The LED Lamp will turn Red and go off. The Transmitter is now turned off

Warning Indicators

Transmitter LED Lamp

An LED lamp on top of the POWER key on the Transmitter is used to show the status of the Transmitter

1. Normal use: GREEN blinking once every 4 seconds
2. Low Battery: ORANGE blinking every 4 seconds
3. Power Off: RED blink once and go off

Low Battery Warning :

 and  signs on the Receiver are used to alert users if the battery has become low.

1. Receiver Low Battery: "Beep" alarm +  blinking
2. Transmitter Low Battery: "Beep" alarm +  blinking
3. The alarms will go "Beep, Beep" every 10 seconds.
Please replace the battery immediately to maintain normal operations of the device.

Poor Signal Warning :

1. If the Receiver cannot properly receive the signal from the Transmitter due to some environmental interference, a blinking  sign and a "--" poor signal alert will appear on the Display of the Receiver (as pictured below). It will also go "Beep, Beep" every 10 seconds. Please turn off and turn on the Receiver to try to acquire the Transmitter's signal again.
2. During the use, if the Receiver cannot properly receive the signal from the Transmitter, the above alerts will also appear on the Receiver. Please move to a place where the Receiver can properly receive the Transmitter's signal. The Receiver will resume monitoring automatically.

* It is possible that the child may sleep "face down" and hence blocks the transmission of the Transmitter

* If the Temperature Sensor/Transmitter is separated from the child, Low Temperature Alarm will be triggered. Please re-attach the Temperature Sensor/Transmitter to the child.

Important Notice

1. The device is designed to function properly under the conditions where the surrounding temperature is between 15 to 40°C, and the relative humidity is 95% and lower. Please do not use this device where the temperature and humidity are not within the range.
2. Where there is no obstruction, the transmission from the Transmitter can reach a Receiver 10 meters or more away.
3. Please do not use the device in the hospital less that it may interfere with operations of the hospital's precision medical facilities.
4. The device is designed to monitor 1 patient. If there is a need to monitor more than 1 patient, please complete the signaling between 1 transmitter and the receiver before go on to establish the signaling between the 2nd transmitter and the receiver. Please call Rio Flexon at 0800-123-123.. for assistance if necessary.
5. The device is used to alert care-takers of the fever development of the patient. The temperature measured, however, can sometimes be influenced by the surrounding temperatures. It is to be used only as a reference. Medical attention from a qualified physician should still be sought for actual diagnosis.

Specifications

Receiver Unit		Transmitter Unit	
Power	A4Battery X2 Lasting up to 20 hours	Power	3Volt Lithium Button Battery CR2032 X1 Lasting up to 60 hours
Temperature precision	+ 0.2°C	Temperature precision	+ 0.2°C
Operating temperature range	15 - 40°C	Operating temperature range	15 - 40°C
size	13.5×5×2.3 cm	size	4.9×2.3×0.5 cm
weight	55 g	weight	5 g (including adhesive pad)
Temperature display precision (interval?)	0.1°C or °F		
standards	Complies with CE standards		
Transmission frequency	433.92MHz		
Radio modulation technique	Amplitude-Shift-Keyed (ASK)		
Temperature transmission frequency	Every 12 seconds		
Valid temperature alarm ranges	Adjustable High and Low Temperature Alarms. Avalid range: Hi-35 - 42°C, Lo-32 - 34.5°C		
Temperature sensor	(Thermistor)		

Complies with the following standards

- 1.ASTM E 1965-98
- 2.EN980:1997(Graphical Symbol)
- 3.IEC/EN60601-1(Safety)
- 4.IEC/EN60601-1-2(EMC)
- 5.EN 1441:1997(Risk Analysis)

**NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR
ANY RADIO OR TV**

**INTERFERENCE CAUSED BY UNAUTHORIZED
MODIFICATIONS TO THIS EQUIPMENT. SUCH
MODIFICATIONS COULD VOID THE USER'S AUTHORITY
TO OPERATE THE EQUIPMENT.**



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