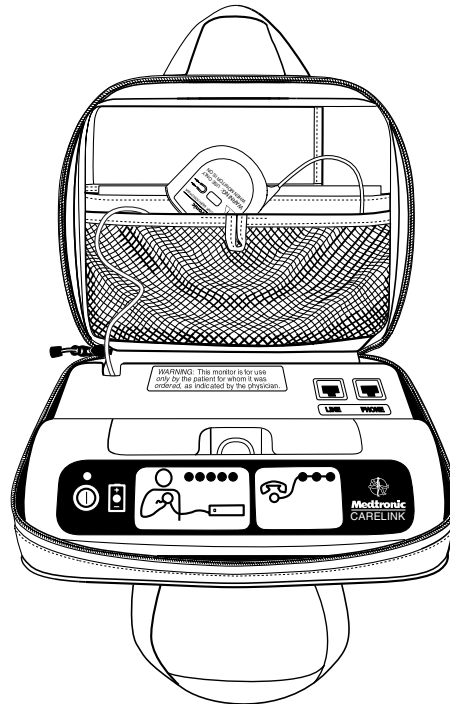




Medtronic

CARELINK™ MONITOR

Model 2490A



Patient manual

Caution: Federal law (USA)
restricts this device to sale by or on
the order of a physician.

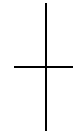
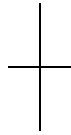
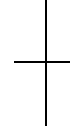
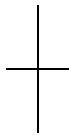


Table of contents

Introduction	3
When to use your CareLink Monitor	3
When not to use your CareLink Monitor	3
Precautions	5
About your CareLink Monitor	6
Choosing a place to set up your CareLink Monitor	7
Setting up your CareLink Monitor	8
Using your CareLink Monitor	12
Green status lights on your CareLink Monitor	16
Orange status lights on your CareLink Monitor	16
Caring for your CareLink Monitor	18



Introduction

This manual is intended to help you understand and use your Medtronic® Model 2490A CareLink Monitor.

If you have any questions not answered by this manual, or if you have any problems with your CareLink Monitor, talk to your doctor. Your doctor knows your medical history and can give you the help you need.

When to use your CareLink Monitor

The CareLink Monitor is an electronic device that provides an easy way for your doctor to obtain information about your implanted device. The CareLink Monitor gathers this information to allow your doctor to manage your care.

Your CareLink Monitor is intended specifically for your use only. It will not work with other implanted devices and should only be used by you as directed by your doctor. Unauthorized use by others with implanted devices could interrupt the prescribed operation of their device.

When not to use your CareLink Monitor

Warning: If you are feeling ill and you think you might need to go to the hospital, *seek medical attention immediately*. If there is an emergency, call 911 or follow other instructions from your doctor. Do not use your

CareLink Monitor to send your medical information to your doctor unless you have already contacted your doctor and your doctor has requested that you use your CareLink Monitor.

Warning: To ensure the safe operation of your implanted device, only use the CareLink Monitor as described in this manual and at the times prescribed by your doctor. If you miss a scheduled time to send data, consult with your doctor.

Warning: If you feel ill after positioning the antenna, remove the antenna from over your implanted device and turn "off" your CareLink Monitor. If you still feel ill, contact your doctor.

Warning: Your CareLink Monitor's antenna contains a strong magnet; however, the monitor has been designed for use with your implanted device. To ensure proper function of your implanted device when not using the monitor, avoid other strong magnets, such as those used in some stereo speakers, bingo wands, extractor wands, magnetic badges, and magnetic therapy products.

Warning: To ensure proper operation of your implanted device, always turn on the CareLink Monitor before positioning the antenna. Follow the instructions in this manual about positioning the antenna over your implanted device.

Warning: Do not use the antenna if your CareLink Monitor does not operate as described in “Using your CareLink Monitor” on page 12. Check the batteries as described in “Battery status” on page 17. If you need further assistance, contact your clinic.

Precautions

- Do not use a cellular phone while the antenna is positioned over your implanted device.
- If possible, avoid using the telephone while using your CareLink Monitor. Your phone line will be "busy" while your CareLink Monitor is sending data.

Note: In the case of an emergency, you can use your phone to call for help. If you have an emergency and the CareLink Monitor is "on" (power status light is lit), press the Power button to turn the CareLink Monitor "off" (power status light is not lit) and to ensure your phone line is available.

- You can use your CareLink Monitor away from your home. However, you will need to keep the following requirements in mind:
 - If you are using a telephone line that requires you to dial a number (usually “9”) to make an outside call, make sure that the telephone line settings are correct. See “Verifying the telephone line settings” on page 10.
- Your CareLink Monitor is designed for use in the continental United States, Alaska and Hawaii.

About your CareLink Monitor

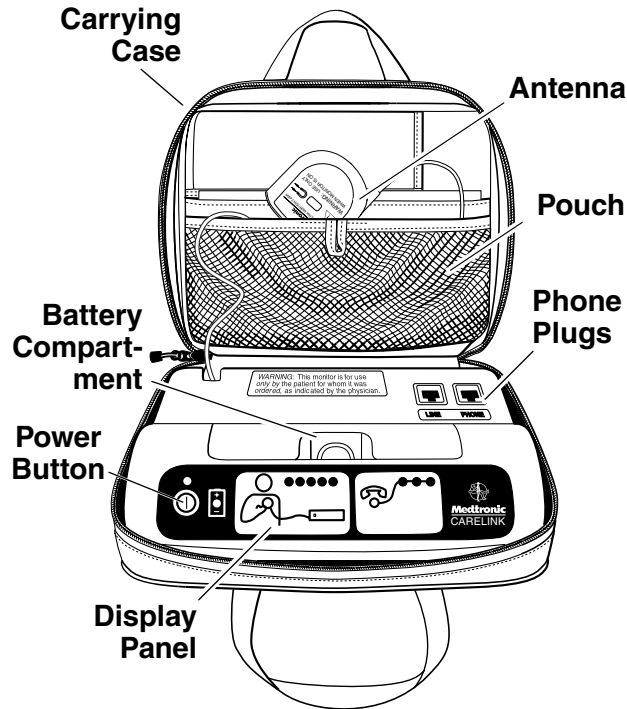
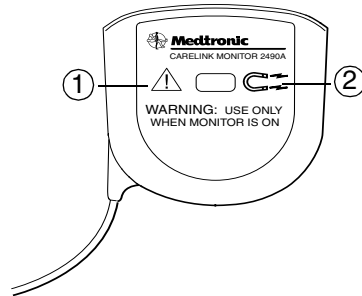


Figure 1 The CareLink Monitor
(front view, approximately 1/4 actual size)

The CareLink Monitor (Figure 1) uses an antenna that is permanently attached to the monitor to gather information from your implanted device.





- 1  Read instruction manual prior to use
- 2  **Caution:** This device contains a strong magnet. Proximity to recording tape and disks should be avoided

Figure 2 Antenna (front view, approximately 1/3 actual size)

Choosing a place to set up your CareLink Monitor

Consider the following recommendations for choosing a place to set up your CareLink Monitor:

- Put your CareLink Monitor in a place where you can sit comfortably and see the front of the CareLink Monitor.
- You will need to connect your CareLink Monitor to a telephone jack. You may use either the telephone cord provided with your CareLink Monitor or any telephone cord with standard connectors.
- Before using your CareLink Monitor, turn off any television sets or computer monitors that are within six feet of your CareLink Monitor or its antenna.

- The CareLink Monitor antenna contains a very powerful magnet that may damage electronic equipment. Do not place or transport the antenna within six inches of credit cards, computers, computer disks, video tapes or other electronic equipment or media containing a magnet strip.
- Do not place your CareLink Monitor anywhere it could get wet.
 - **Caution:** Do not get your CareLink Monitor wet. Water can damage your CareLink Monitor. If your CareLink Monitor is exposed to water, contact your clinic for instructions.

Setting up your CareLink Monitor

Before you use your CareLink Monitor you will need to:

1. Install four C size batteries.
2. Verify the telephone line settings.
3. Connect your CareLink Monitor to a telephone jack.

You may connect a telephone to your CareLink Monitor, but the telephone is not required for your CareLink Monitor to work properly. You may choose to connect your monitor to your telephone if you intend to leave your CareLink Monitor set up continually.

Installing batteries

Your CareLink Monitor requires four C size batteries. To open the battery compartment, push the latch upward.

Install the battery on each end first as shown in Figure 3.

Battery Compartment Latch

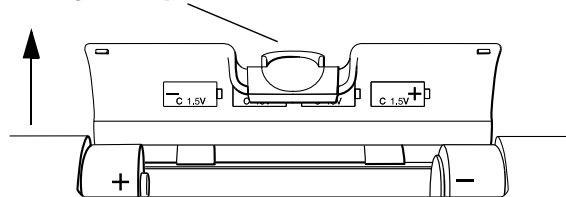


Figure 3 Battery compartment with two batteries installed

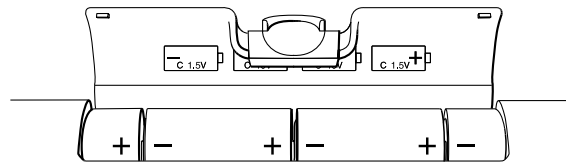


Figure 4 Battery compartment with four batteries installed

Note: When you are ready to send data at your scheduled time, press the Power button. If the green power status light remains off or the orange battery status light blinks and the CareLink Monitor beeps, verify that the batteries are installed correctly. Replace the batteries if necessary. Follow local regulations for the proper disposal of used batteries.

Verifying the telephone line settings

Before using your CareLink Monitor, verify that the telephone line settings are appropriate. There are two telephone line settings on the CareLink Monitor. See Figure 5.

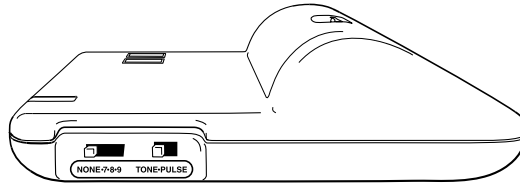


Figure 5 Location of telephone line settings

NONE-7-8-9 determines if a number needs to be dialed to reach an outside telephone line. There are four positions for the switch. The switch will click into position above each setting as it is moved from side to side.

TONE-PULSE selects a tone or pulse telephone line. There are two positions for the switch. The switch will click into position above each setting as it is moved from side to side.

Telephone line settings may be selected when your CareLink Monitor is "on" or "off."

Select the settings that are appropriate for the telephone line you will be using. None is the most common setting for home use. If you are staying in a hotel, you may have to set the switch to "7", "8" or "9" to get an outside line. See Figure 6. If you have questions about the phone line, contact your local phone carrier.

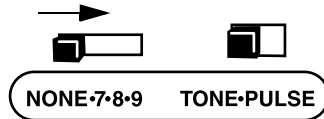


Figure 6 Telephone line settings

Connecting your CareLink Monitor to a telephone jack

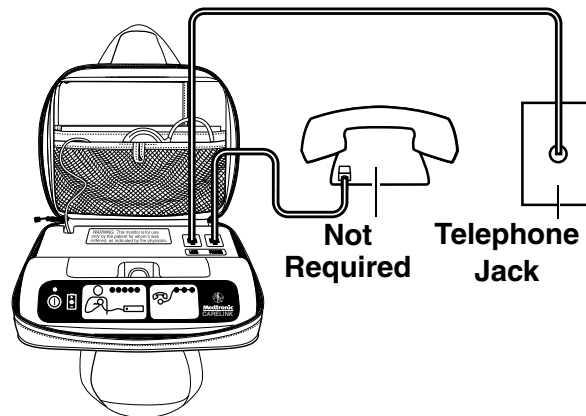


Figure 7 The CareLink Monitor connected to a telephone jack and a telephone (the telephone is not required).

To set up your CareLink Monitor, you will need to do the following:

1. Make sure that you have your CareLink Monitor and the telephone cord.
2. Locate the plugs on the top right corner of your CareLink Monitor.

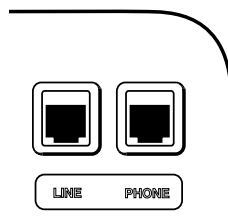


Figure 8 Telephone plugs

3. Plug one end of the telephone cord into the Line plug on the top of your CareLink Monitor. See Figure 8.
4. Plug the other end of the telephone cord into the telephone jack in your wall.
5. (Not Required) For convenient use of your CareLink Monitor or the telephone, plug the cord from your telephone into the Phone plug on your CareLink Monitor.

Using your CareLink Monitor

1. Press the “Power” button on the front of your CareLink Monitor. The green light above the Power button blinks and then remains lit.
2. Hold the antenna over your implanted device so that the position antenna status light is off. You may either hold the antenna snugly against your clothing or hold it directly against your skin. The label should be facing out and away from you when you are holding the antenna over your implanted device. See Figure 9.
Reposition the antenna if the orange antenna position light starts blinking. See Figure 10.

Note: You may hear tones from your implanted device when the antenna is placed in position. If you have questions about these tones, you should talk to your doctor. Whether your implanted device emits tones depends on the model and the features selected by your doctor.

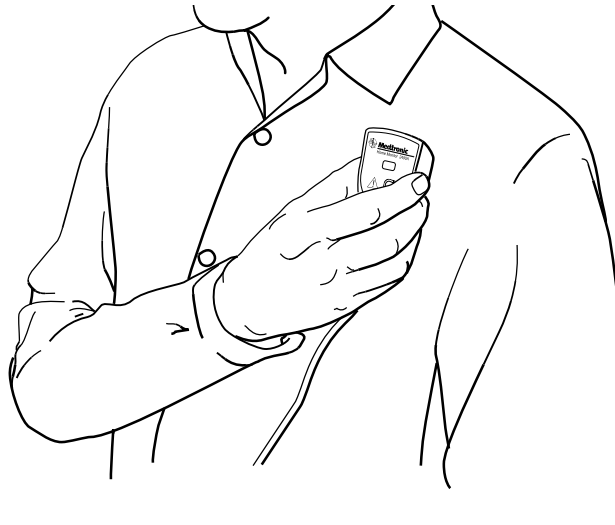


Figure 9 Positioning the antenna

3. Watch the status lights on the display panel on the front of your CareLink Monitor. See Figure 10.

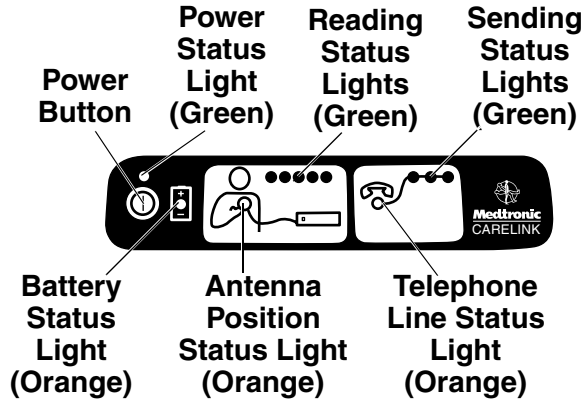


Figure 10 Power button and status lights

Each of these status lights has a different meaning when you use your CareLink Monitor to send your implanted device information.

4. The five green reading status lights fill as your CareLink Monitor gathers information from your implanted device.

While the reading status lights are blinking, remain seated and make sure your CareLink Monitor antenna is placed over your implanted device. When your CareLink Monitor is done collecting data from your implanted device, these status lights stop blinking and turn "off." Your CareLink Monitor beeps twice and automatically dials the correct number. This process typically takes less than 3 minutes, but may take up to 12 minutes.

When you hear your CareLink Monitor dialing, remove the antenna from your implanted device. Place the antenna back in its pouch.

Note: Your CareLink Monitor will emit high-pitched tones when dialing the pre-programmed number.

The three green sending status lights start blinking when your CareLink Monitor is sending data. This process typically takes less than 3 minutes but may take up to 60 minutes.

When the CareLink Monitor is sending data, your telephone line is not available to make or receive calls. In case of emergency, press the Power button to turn "off" the monitor and to ensure your phone line is available for incoming and outgoing calls.

When the green sending status lights start blinking, you can get up and leave, but you should not use the telephone unless there is an emergency.

When your CareLink Monitor is done sending information, the right sending status light remains on and you hear two beeps.

Your CareLink Monitor shuts off automatically after two minutes or you may press the Power button. You can then use the telephone to make or receive any calls. The CareLink Monitor may be put away for storage.

Note: If you must stop before the session is complete, remove the antenna from over your implanted device and turn "off" your CareLink Monitor. When you are ready to re-start the session, follow steps 1 through 4.

Green status lights on your CareLink Monitor

The green lights indicate data reading status and data sending status. See Figure 10.

If the reading lights stop blinking and remain lit for more than 3 minutes, press the Power button and repeat steps 1 through 4.

If your CareLink Monitor is turned "off" before your data is read, repeat steps 1 through 4.

If the sending status lights remain lit for more than 1 hour, turn "off" your CareLink Monitor and repeat steps 1 through 4.

If your CareLink Monitor is turned "off" before your data is sent, repeat steps 1 through 4.

Orange status lights on your CareLink Monitor

The three orange lights on the front of your CareLink Monitor are status lights. See Figure 10.

The status lights are:

- Battery Status
- Antenna Position Status
- Telephone Line Status

The orange status lights should not be lit when you are using your CareLink Monitor. If any of these status lights remain on or you hear short beeps after pressing the Power button, try the recommendations in the following paragraphs.

Battery status

If the orange battery status light blinks and you hear continuous beeps, the batteries are low and should be replaced. If no status lights come on after pressing the Power button, verify that the batteries are installed correctly. Replace the batteries if necessary. See “Installing batteries” on page 9.

Antenna position

If the orange antenna position status light begins blinking and you hear short beeps:

- Make sure the label on the top of the antenna is facing out and away from you.
- Reposition the antenna over your implanted device.

When the antenna is repositioned correctly, the orange antenna position status light will turn "off", the green status lights will begin blinking and your CareLink Monitor will resume data collection.

Telephone line status

If your CareLink Monitor beeps and the telephone line status blinks:

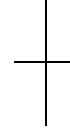
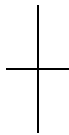
- If the call was interrupted due to Call Waiting, the monitor automatically redials and sends your device information. If your CareLink Monitor does not begin redialing, check that the telephone connections are intact.
- Make sure that the telephone line settings are correct. See Figure 6. If you need help determining the type of telephone line, contact your local phone carrier.
- Test the telephone line to make sure it is working by making an outside call using the telephone connected to your CareLink Monitor. If the telephone connected to your CareLink Monitor is not working, try another telephone that is connected to a different telephone jack.
- Telephone line settings may be selected when your CareLink Monitor is "on" or "off."

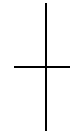
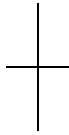
Caring for your CareLink Monitor

Avoid dropping your CareLink Monitor on a hard surface. Contact your clinic if your CareLink Monitor has been dropped.

You can clean the outside with a clean, dry cloth.

Caution: Do not get your CareLink Monitor wet, because water can damage it. If your CareLink Monitor is exposed to water, contact your clinic for instructions.







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When Life Depends on Medical Technology

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UCX220548001 220548001
January 2002