

Telemonitoring Services



Patient Telemonitoring Set

Instructions for use/Instrucciones de uso

English

Spanish

PHILIPS

Notice

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Philips Medical Systems
3000 Minuteman Road
Andover, MA 01810-1085
USA

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1 Introduction

Welcome

Welcome to Philips Telemonitoring Services.

When you use this product, you'll take a few minutes every day to measure your weight, vital signs, and/or glucose.

These measurements will help you and your healthcare provider make better decisions about your care. You are providing information that can help improve your quality of life.

How the System Works

With this system, it's easy to take your measurements from the comfort of your home. The measurements are sent over your phone line to your healthcare provider's computer.

Feel free to talk on your phone at any time -- the system is "smart" enough to know when the phone line is open. It will wait and then send the information after you hang up.

Keeping the System Working

If at any time you suspect something is wrong with any of the devices, immediately contact your healthcare provider. Philips will replace any defective device. You can also cross-check your results with another device if additional measurement devices of the same type are available to you.

This Guide contains easy-to-follow steps for taking your measurements. It also shows you how to maintain the devices so that they will continue to take true readings.

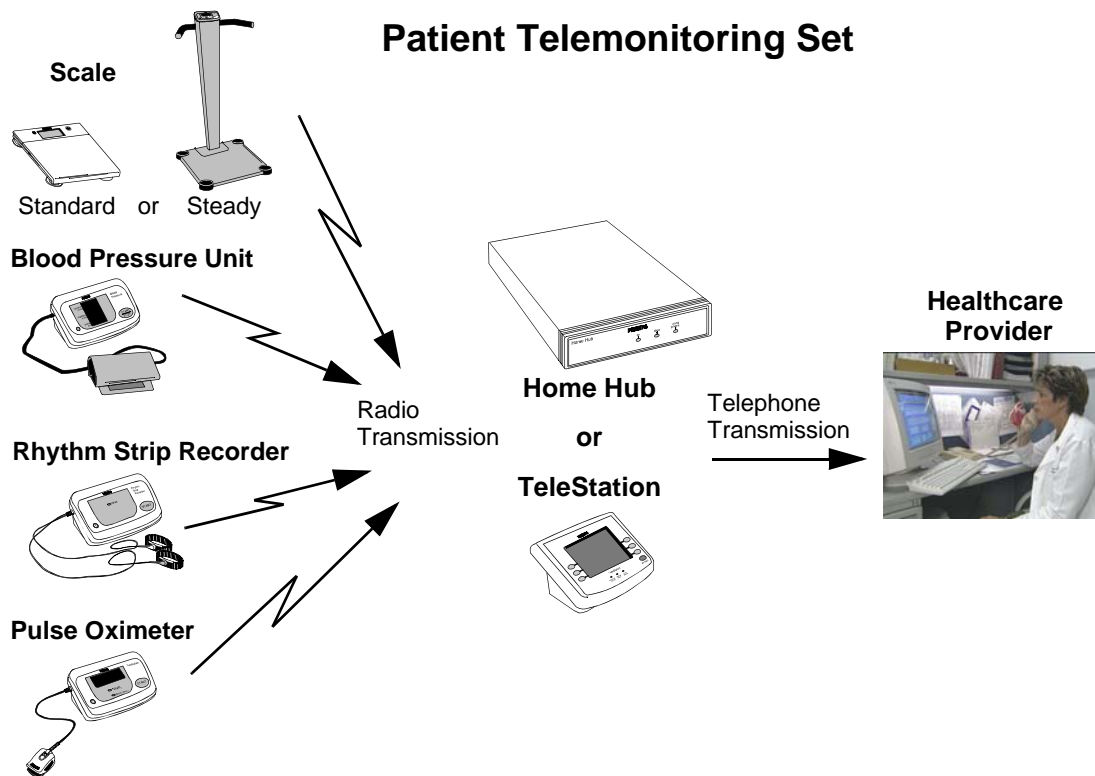
Thank You!

Thank you for taking an active role in your home healthcare plan. Philips and your healthcare provider applaud your efforts to actively participate in your health care plan.

Philips Telemonitoring Services System

Your Philips Telemonitoring Services system includes a set of measurement devices known as the **Patient Telemonitoring Set**. Each device takes an important measurement -- such as weight, blood pressure and pulse, heart rhythm, %SpO₂ -- and then wirelessly sends that measurement to the Home Hub or TeleStation.

Your healthcare provider decides whether you will use one or all of the measurement devices below. The HomeHub/TeleStation is the "communications center." It receives your measurements from the devices via radio transmission and sends them over your phone line to your healthcare provider's computer. The computer keeps a record of all of your vital sign measurements for review by your healthcare provider.



Safety and Precautions

Follow Instructions

Follow your doctor's instructions about symptoms that require you to contact your healthcare provider. Use of this device is not intended to replace your existing therapy or drug administration. Remember, only your healthcare provider is trained to interpret the results. He or she will tell you when and how often to take your vital signs. Please read all of the instructions in this guide before using the Philips Telemonitoring System and follow the instructions carefully.

Document Conventions

The following conventions will be used in this Guide to alert you to special or important information in the text.

Warnings

Warnings are information you should know to avoid a hazard that could result in severe injury or death.

Observe the following **Warnings** with all devices of the Philips Telemonitoring System.

Warning

- **Do not** let anyone else use these devices. They are provided for **your use only**.
- **Do not** swap devices with a neighbor or family member who has the same or similar system.
- These devices are **not** intended to be used to call for emergency medical attention or response.
- **Do not** try to fix a device yourself. If there's a problem, call your healthcare provider.
- **Do not** use a device with the battery door removed.
- Avoid exposing the devices to extremes in temperature, humidity, direct sunlight, shock, dust spill, or standing water.
- **Do not** let children use the device.
- Throw away packing materials and plastic bags right away. They are a hazard for children.

Safety and Precautions

- Small parts that can be removed from a device and swallowed -- such as the Home Hub rubber feet and Home Hub power adapter clip -- are hazards for children and pets.
- To prevent shock, connect cables only as described in this Guide.
- **Do not** connect anything to this system other than Philips Telemonitoring Services devices or glucose meters approved by your healthcare provider.
- To prevent shock, do not use devices during a lightning storm.
- Call your healthcare provider if you are injured using any of these devices.

Cautions **Cautions** are information you should know to avoid a hazard that could result in personal injury or property damage.

Observe the following **Cautions** with all devices of the Philips Telemonitoring System.

Caution

- Read this Guide carefully before using these devices.
- Use these devices **only** as directed by your healthcare provider.
- Follow your physician's instructions regarding symptoms that require direct contact with your healthcare provider.
- Use of these device is **not a substitute** for medical care.

Notes **Notes** contain additional information on usage of the Patient Telemonitoring System and its devices.

Note








Bold Typeface

Objects of actions in procedures appear in **bold** typeface, as shown in the following example:


Step 1. Select the **Update** button.

Display Symbols

A number of symbols are displayed on various devices or in documentation of the Philips Telemonitoring System. Their meaning and the devices on which they may appear are given in the following table.

Symbol	Description	Applicable Devices
	Type B Patient Applied Parts as defined in IEC 60601-1. Not suitable for direct cardiac application.	Standard Scale Steady Scale Blood Pressure Unit Rhythm Strip Recorder Pulse Oximeter
	Attention: Consult accompanying documents.	Home Hub/TeleStation Standard Scale Steady Scale Blood Pressure Unit Rhythm Strip Recorder Pulse Oximeter
	Meets UL-1950. CSA-950, IEC-60950 standards Meets CSA IEC-60950-1 standards	Home Hub/TeleStation Standard Scale Steady Scale Blood Pressure Unit Rhythm Strip Recorder
	Meets IEC-60601-1 standards.	TeleStation Pulse Oximeter
	In TelePort serial data port for connection to Philips devices only	TeleStation
	AC Power adapter connection (9.0VAC/500mA Use Philips-supplied adapter only)	TeleStation
	Telephone or telephone line	TeleStation

Display Symbols

Symbol	Description	Applicable Devices
	Meets Class B standards.	Home Hub/TeleStation Standard Scale Steady Scale Blood Pressure Unit Rhythm Strip Recorder Pulse Oximeter
	Meets Part 15 standards.	Standard Scale Steady Scale Blood Pressure Unit Rhythm Strip Recorder Pulse Oximeter
	Meets Part 68 standards	Home Hub/TeleStation

Philips Telemonitoring Set

Overview

Chapter 2 provides a detailed description of the devices of the Philips Telemonitoring Set and how to use them. It includes the following.

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Device Descriptions

The **Philips Telemonitoring Set** consists of a Home Hub or TeleStation, which serves as the "communications center" of the system, and one or more devices that measure an important healthcare parameter -- Scale (weight), Blood Pressure Unit (blood pressure), Rhythm Strip Recorder (heart rhythm), Pulse Oximeter (%SpO₂, pulse rate).

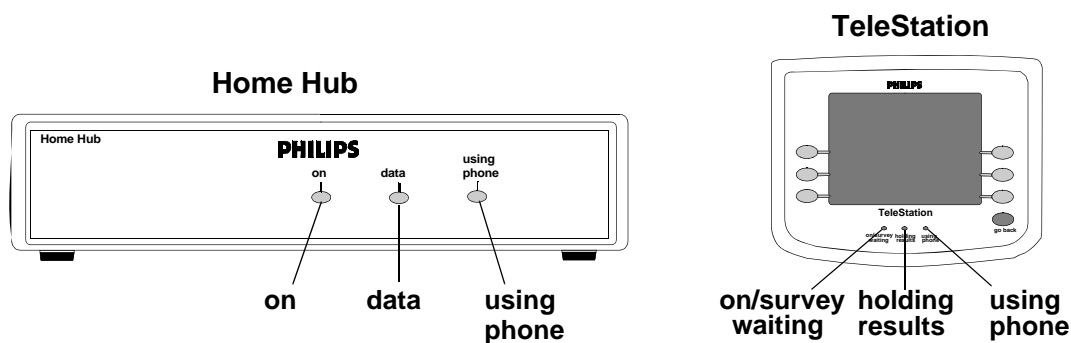
This section provides a brief description of each of these devices. More detailed descriptions of how to use each device to make its measurement are given in the sections that follow.

Home Hub/ TeleStation

You will have either a **Home Hub** or a **TeleStation**, depending on the home healthcare plan designed for you.

After you take a measurement, such as weight, the Home Hub/TeleStation receives the result. It then sends the result to your healthcare provider's computer when both telephone lines (yours and the computer's) are free.

If you pick up your telephone while the Home Hub/TeleStation is dialing or sending the result, you will not hear a dial tone. Hang up the phone and wait for 5 seconds. Then make your call. The Home Hub/TeleStation will send the result at a later time, when the phone line is open. Your healthcare provider will call you if your results are not received.



Front Panel Lights

The Home Hub and TeleStation have lights on the front that indicate what it is currently doing.

The **on** or **on/survey waiting** light stays lit as long as the Home Hub/TeleStation is plugged in.

If you have the TeleStation and the **on/survey waiting** light is **flashing**, you have questions to answer.

If it is **not flashing**, there are no questions for you to answer.

The **data** or **holding results** light comes on when the Home Hub or TeleStation receives your measurement results and stays on until those results have been sent over the telephone.

The **using phone** light comes on when the Home Hub or TeleStation is sending your results to your healthcare provider's computer.

Warnings

The following **Warnings** apply to the use of Home Hub/TeleStations.

Warning

- Use **only** the Philips-supplied power adapter for the Home Hub/TeleStation.
 - Don't place anything on top of the adapter.
 - Plug the adapter into an outlet near the Home/Hub Telestation for easy access.
 - Unplug the adapter from the outlet to disconnect.
- **Do not** place the Home Hub/TeleStation where anyone, especially children, can step on, trip over or get tangled in phone or power adapter cords.
- **Do not** place the Home Hub/TeleStation near running water or where liquids (for example, a cup of coffee or water in a vase of flowers) might spill onto it.
- Unplug power and phone cords before cleaning the Home Hub/TeleStation and prior to an impending lightning storm
- **Do not** put lighted tobacco products or candles on Home Hub/TeleStations.
- **Do not** overload circuits where Home Hub/TeleStation are installed.

Device Descriptions

- If you have a personal response service (for example LifeLine[®] Systems), it must be installed on its own phone line (not just a separate telephone jack).
- **Do not** touch, use, clean, or handle the Home Hub/TeleStation or your connected glucose meter during a thunderstorm.

Cautions The following **Cautions** apply to using the HomeHub or TeleStation.

Caution

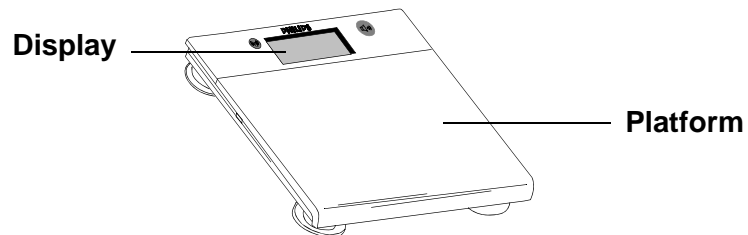
- Avoid placing the Home Hub/TeleStation on a metal surface or inside a metal enclosure as it can interfere with the radio signal.
 - **Do not** use electronic devices, such as cordless and cellular phones and computers, near the Home Hub/TeleStation
 - Avoid placing large appliances or metal furniture near the Home Hub/TeleStation as they can block radio signals from the measurement devices.
 - High temperatures can affect the LCD screen of your TeleStation.
 - Choose a location away from direct sunlight.
 - Operate the TeleStation at room temperature.
 - Make sure that the Home Hub/TeleStation is plugged into its telephone jack and electrical outlet at all times, except when cleaning or prior to an impending lightning storm.
 - Make sure that a light switch or power strip does not turn off power to the Home Hub/TeleStation.
 - Clear voice mail messages. Telephone services that modify the dial tone, such as voice mail, can interfere with transmissions made by the Home Hub/TeleStation.
 - If you are using a glucose meter connected to your TeleStation:
 - Follow the glucose meter manufacturer's instructions.
 - Follow any additional instructions from your healthcare provider.
 - **Do not** take glucose measurements while your glucose meter is connected to your TeleStation.
-

Scale



You may have either a Standard Scale or a Steady Scale. Both scales speak your weight.

Standard Scale

The **Standard Scale** is for people who can get on and off the Scale without help. It has a maximum weight limit of **440 lbs (200 kgs)**.



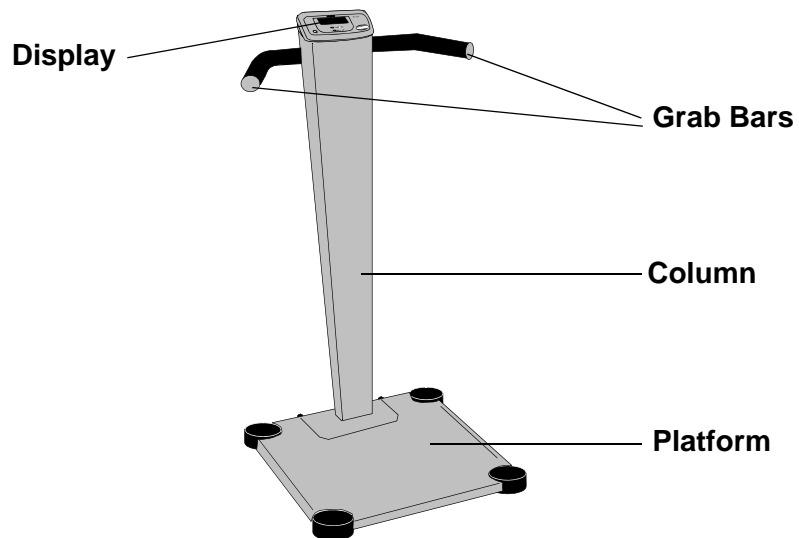
The scale announces your weight (in English or Spanish).

The front panel has a **Volume** control button  and a **Radio Test** button .


Batteries are stored underneath the platform.

Steady Scale

The **Steady Scale** has a column with grab bars to help people keep their balance when using the Scale. It has a maximum weight limit of **365 lbs (166 kgs)**.



Device Descriptions

The Steady Scale announces your weight in English only.
The front panel has a **Volume** control and a **Radio Test** button .
Batteries are stored underneath the display case.

Warnings The following **Warnings** apply to use of the Scale.

- Warning**
- **Do not** use the Scale in standing water.
 - **Do not** store the Scale where children or pets could get hurt by playing with the grab bars and knocking the Scale over.
-
-

Cautions The following **Cautions** apply to use of the Scale.

- Caution**
- **Do not** use the **Standard Scale** if you weigh over **440 pounds (220 kilograms)**.
 - **Do not** use the **Steady Scale** if you weigh over **365 pounds (166 kilograms)**.
 - Keep the Scale in a dry, temperature controlled place, **not in the bathroom**.
 - Position the Scale away from metal objects, such as a refrigerator, as they can block transmission to your Home Hub/TeleStation.
 - Place the Scale on the floor between 1 to 3 inches (2.5 to 7.5 cm) from a wall and facing it.
 - Only one person should use the Scale.
 - **Do not** use the Scale to measure anything other than yourself, such as a package or pet, because all measurements are sent to your healthcare provider.
 - **Do not** drop or drag the Scale.
 - **Do not** step on the Scale's corners.
 - Carpet feet may need to be installed on the Steady Scale if it is to be used on carpet.
 - Traveling with the Scale is not recommended.
-
-

Note If you don't feel comfortable taking your weight using the Standard Scale, contact your healthcare provider.

Blood Pressure Unit

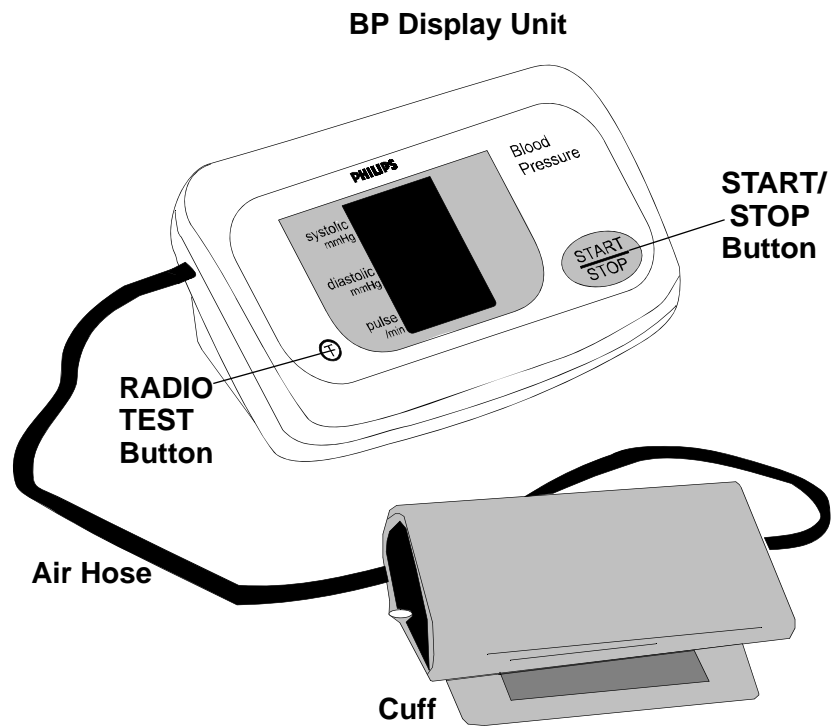
You may have a Blood Pressure Unit if your home healthcare plan includes measuring your blood pressure and pulse.

The **Blood Pressure Unit** (also called a BP Unit) is a plastic display case with a removable blood pressure cuff. The BP Unit displays your blood pressure and pulse.

The BP Unit has an air hose connector on the left side. The blood pressure cuff has a metal D-ring (a metal bar that the cuff slides through and loops over), an air hose, and an air connector. Batteries are stored underneath the display case.

BP Unit Display Case

The display case has a **START/STOP** button and a **RADIO TEST** button .



Device Descriptions

Warnings The following **Warnings** apply to use of the BP Unit.

- Warning**
- Avoid storing the BP Unit where children or pets can get at it. There is a risk of injury if they get tangled in the air hose or if the cuff inflates.
-
-

Cautions The following **Cautions** apply to use of the BP Unit.


- Caution**
- If you get an error message when taking your blood pressure or think the reading may be wrong, wait 5 minutes, and then take it again.
 - **Do not** store the BP Unit inside a metal drawer or container, such as a file cabinet. It will interfere with the radio signal to the Home Hub/TeleStation.
 - **Do not** store the BP Unit with the cuff assembly twisted or folded tightly.
 - Avoid tugging at the air hose or using it to carry the BP Unit.
 - Watch the display when taking your blood pressure.
 - If the numbers go up to **330 mmHg**, press the **START/STOP** button immediately.
 - If the numbers drop down to **15 mmHg** and stay that way for more than 3 minutes, press the **START/STOP** button again.
 - Contact your healthcare provider.
-

Rhythm Strip Recorder

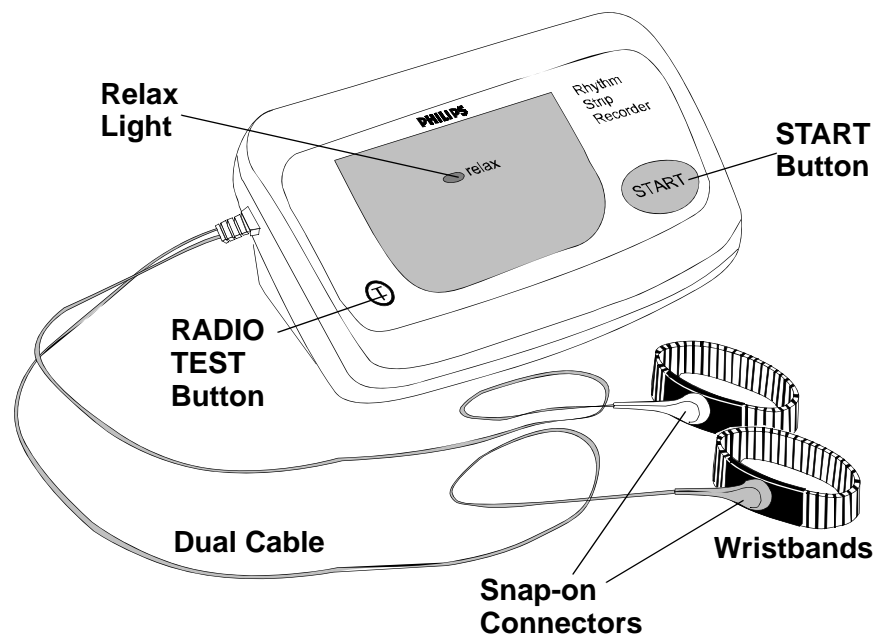
You may have a Rhythm Strip Recorder if your healthcare plan includes recording your heart rhythm.

The **Rhythm Strip Recorder** is a plastic display case with an attached dual cable with snap-on connectors. Each of the two metal wristbands has a black plastic pad. One side of the pad has a metal snap and the other side has a flat piece of metal. Batteries are stored underneath the display case

Rhythm Strip Recorder Display Case

The display case has a **START** button, a **RELAX** light, and a **RADIO TEST** button  .

Rhythm Strip Recorder Display Unit



Device Descriptions

Warnings The following **Warnings** apply to use of the Rhythm Strip Recorder.

- Warning**
- **Do not** store the Recorder where children or pets can get tangled in the cables and the wristband.
 - The wristbands may cause skin irritation, injury or an allergic reaction to metal.
 - Stop using the recorder if you have redness, rash, or other skin problems.
 - Contact your healthcare provider.
-
-

Cautions The following **Cautions** apply to use of the Rhythm Strip Recorder.

- Caution**
- **Do not** store the Recorder inside a metal drawer or container, such as a file cabinet. It will interfere with the radio signal to the Home Hub/TeleStation.
 - Store the Recorder so that the dual cable is not twisted or kinked.
 - Avoid tugging at the dual cable or carrying the Recorder by the cable.
-


Pulse Oximeter

The **Pulse Oximeter** is a plastic display case with a finger-clip sensor attached to it. The front of the case has the following elements, as shown in the figure below. The rear of the case has a compartment for batteries that power the device.

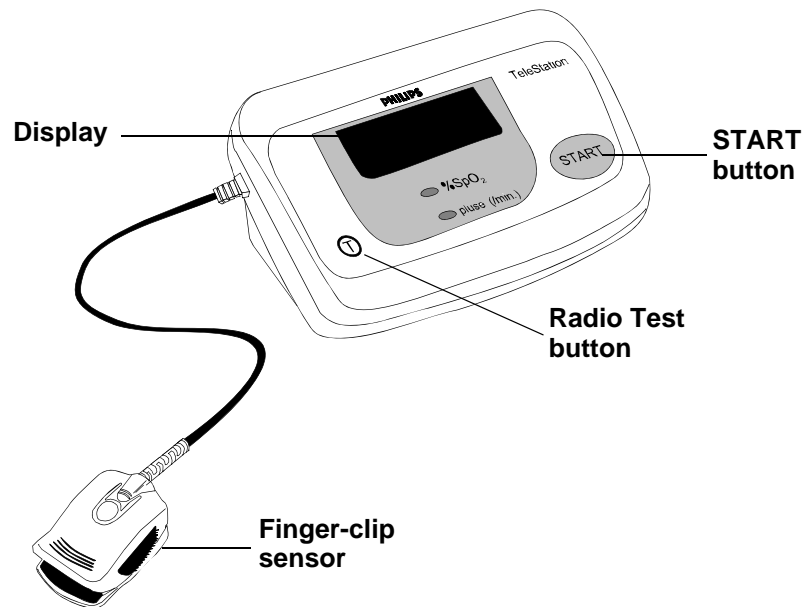
Pulse Oximeter Display Case

An LED display window shows the blood oxygen level (%SpO₂) and pulse rate (in beats per minute) measured from the end of your finger. LEDs below the display window light to indicate which measurement is being displayed -- **%SpO₂** or **pulse (/min.)**.

Pushing the **START** button causes the Pulse Oximeter to begin taking a measurement.

The **Radio Test** button  is used to test the transmission of measurements from the Pulse Oximeter to the Home Hub or TeleStation.

The **Finger-clip sensor** is used to measure your blood oxygen level and pulse rate. The sensor is clipped on the end of one of your fingers. The Finger-clip contains an LED light source that shines light on your finger. Light transmitted through the blood in your finger is received by a photo sensitive element and electronics in the display case uses the transmitted light to determine your blood oxygen level and pulse rate.



Warnings The following **Warnings** apply to use of the Pulse Oximeter.

- Warning**
- **Do not** use a damaged sensor.
 - **Do not** let children use the device.
 - Avoid exposing the devices to extremes in temperature, humidity, direct sunlight, shock, dust spill, or standing water.
 - The sensor may cause skin irritation, injury or an allergic reaction.
 - **Do no** use the device with the battery door removed.
 - Stop using the Pulse Oximeter if you have redness, rash, or other skin problems.
 - Discontinue use if skin tear or damage occurs. Contact your healthcare provider.
 - To prevent shock, do not use devices during a lightning storm.
-
-

Cautions The following **Cautions** apply to use of the Pulse Oximeter.

- Caution**
- Read the procedures carefully before using this device.
 - Use this device **only** as directed by your healthcare provider.
 - Follow your physician's instructions regarding symptoms that require direct contact with your healthcare provider.
 - This device is not intended for continuous monitoring.
 - This device may not work properly on all people. If you are unable to achieve stable readings within 3 or 4 attempts, discontinue use and contact your healthcare provider.
 - Use of this device is not a substitute for medical care.
 - If you have any questions regarding how to use your Pulse Oximeter, please contact your healthcare provider.
 - Abnormal hemoglobin may affect accuracy.
-

Device Usage

This section describes how to use each of the devices of the Philips Telemonitoring Set -- HomeHub/TeleStation, Scale, Blood Pressure Unit, Rhythm Strip Recorder, and Pulse Oximeter.

Home Hub/ TeleStation

The **Home Hub** or **TeleStation** is the communications center for your Patient Telemonitoring Set. You may have a Home Hub or a TeleStation depending on your healthcare plan.

Once the Home Hub/TeleStation is hooked up to your telephone and plugged into the wall, it will send your measurements to your provider when your phone line is free.

Note

The Home Hub and TeleStation depend on your phone number to transmit results. They are not made to travel.

Home Hub

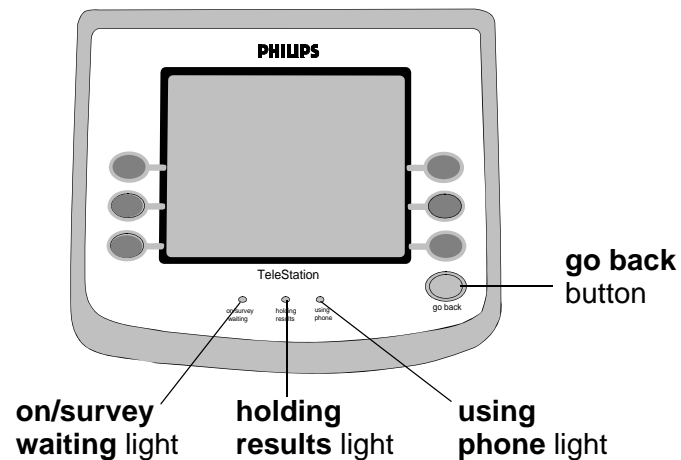
The **Home Hub** receives your measurement results from your measurement devices by radio signals and automatically sends the results to your healthcare provider's computer. No actions are required by you after you have made your measurement.

TeleStation

TeleStations also have the capability of asking you questions about your health and sending your answers to your healthcare provider. Some TeleStations also have the ability to let you enter your measurements manually and to receive results for some Glucose Meters. Procedures for using these features are given in the following sections

Answering Survey Questions

The front panel of the TeleStation has a number of buttons to assist you in answering questions and lights to indicate when questions have been sent as shown in the following figure.



If the **on/survey waiting** light flashes on the front of your TeleStation, there are questions, chosen by your healthcare provider, waiting to be answered.

If the **on/survey waiting** light is not flashing, there are no questions to answer. Educational tips may pop up in response to one

To answer survey questions, use the following procedure

Step 1. Questions are shown on the screen with answer choices:

- Push the button next to the best answer.
- Choose only one. The answer will be highlighted.

If you make a mistake:

- Select the **go back** button and choose your answer again.

Step 2. 2. After you select an answer, the next question is displayed.

- Select and answer it by pushing a button.
- Answer all of the questions.

Step 3. If you want to change your answer to an earlier question:

- Push the **go back** button until you see that question again.
- Then push the button next to the correct answer.

Note

If you go back to change an answer to an earlier question, you will then need to answer all of the questions that follow again. The last question will confirm that your responses are complete.

Step 4. When you have finished the survey, the **holding results** light will come on followed by the **using phone** light, showing that your results are being sent to your healthcare provider's computer.

Entering Measurements Manually

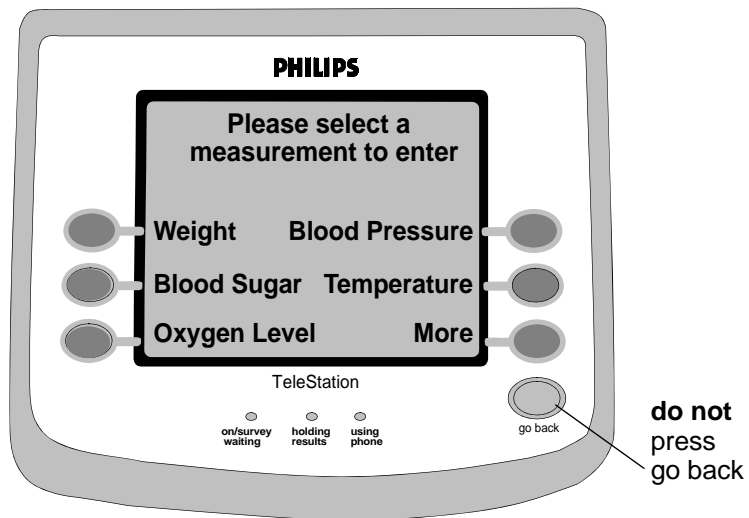
For TeleStations that permit manual entry of your measurements, the procedure is as follows.

Note Your TeleStation may not have this feature. Consult your healthcare provider if you want to use this feature.

Step 1. Take your measurements as directed by your healthcare provider and write down the results.

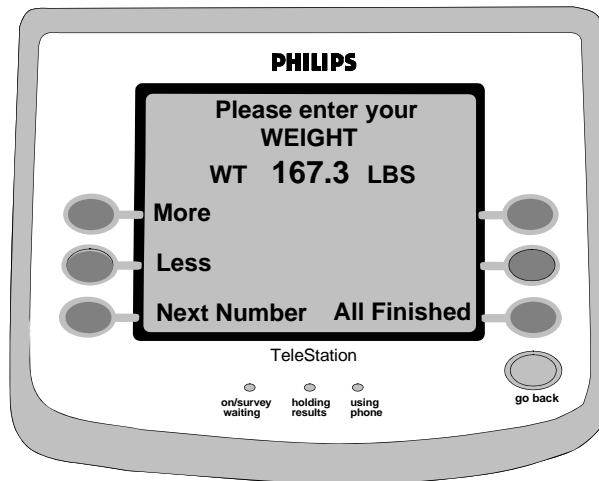
Step 2. Press any button – except **go back**.

A menu screen appears showing the measurements you might take



Step 3. Press the button next to the measurement you want to enter, **or**, press the **More** button to see other measurements.

The measurement entry screen appears, for example **WEIGHT** as shown below.



Note If you make a mistake, press the **go back** button before you press the **All Finished** button.

Step 4. Use the **More** and **Less** buttons to set the number on the screen to match the measurement that you wrote down earlier.

Note To make big changes to a number, press the **Next Number** button one or more times, then use the **More** or **Less** buttons.

When entering **Blood Pressure** and **Oxygen Level** measurements, press **Continue** to move to the next part of the entry.

When you have finished entering your measurement:

Step 5. Press the **All Finished** button to store your measurement.

Step 6. Repeat **Steps 3-5** to enter your other measurements.

Device Usage

Several minutes after you store your last measurement, the screen will go blank and the **using phone** light will turn on indicating that your measurements are being sent to your healthcare provider's computer.

Note If you get an invalid reading on your measurement device, do not enter it in the TeleStation.

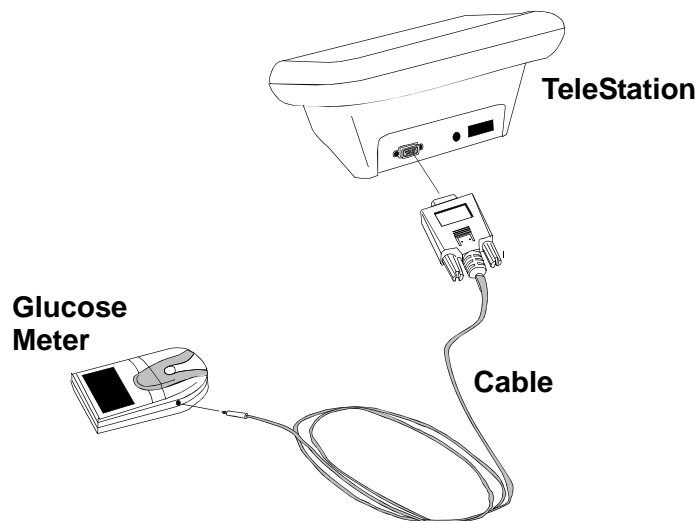
If you accidentally turn on the measurement screen, do not press any buttons. After a few minutes the screen will go blank.

Entering Glucose Meter Results

The TeleStation can read results from some Glucose Meters. Your healthcare provider will tell you if your meter is one of these.

Notes **Do not** measure your glucose while your Glucose Meter is connected to the TeleStation.

Clean your finger of blood before using the TeleStation.



Follow these steps to send your Glucose Meter results to your healthcare provider's computer via the TeleStation:

Step 1. Connect the large end of the cable to the back of the TeleStation. There is only one port where it will fit, marked **10101**.

Step 2. Firmly connect the small plug end of the interface cable into the data port on the Glucose Meter.

Step 3. Turn the Glucose Meter on.

The Glucose Meter will automatically send the results to the Telestation and then turn off.

Step 4. Disconnect your meter from the cable. You may leave the cable connected to the TeleStation.

The Philips Telemonitoring System relies on the Glucose Meter's date and time to calculate the actual date and time of the glucose reading. This gives the clinician the most accurate time of measurement, regardless of whether the meter time is set correctly. As long as the Glucose Meter time doesn't change, this System generates the correct time of measurement.

Changing Glucose Meter Time and Date

Any time it is necessary to change the time or date in your Glucose Meter, follow the steps below to ensure that your glucose results and their associated date and time are accurate when you transmit them via the TeleStation.

Step 1. Connect your Glucose Meter to the TeleStation and transmit the results as described above.

Step 2. Clear the Glucose Meter's memory of all readings.

Step 3. Change the time and/or date on your Glucose Meter following the procedure described for the unit.

Scale	Two types of scale are available: Standard Scale for people who can get on and off without help Steady Scale with a column and grab bar to help keep your balance.
Notes	If you have been given a Standard Scale and are having balance problems standing on it, contact your healthcare provider. A Standard Scale can be converted to a Steady Scale. If you need the support of a walker, refer to the following section Measuring Weight with a Walker.
Measuring Weight	Procedures for measuring your weight on both the Standard and Steady Scales are as follows. Choose the procedure for your type of Scale. Standard Scale Step 1. Step on the Scale and stand on it without holding onto anything. <ul style="list-style-type: none">– Stand as much in the center of the platform as possible.– Try not to step on the corners; you might damage the Scale. Step 2. The Scale will say, <i>“Please stand still”</i> . Do not move. Walking "-" will show on the display during the measurement.
Notes	You will not hear the voice prompt if the volume is set to Silent. After several seconds, the Scale will say <i>“Please step off the Scale”</i> . Step 3. Step off the Scale. About 5 seconds after you step off the Scale, the Scale will say your final weight (unless the volume is set to Silent). The Scale then turns off by itself.
Notes	If the batteries in the Scale are weak, the Scale’s display will alternately flash Lo and batt and will announce <i>“Please replace the scale batteries”</i> for 3 measurement cycles. If these messages appear on the display, change the Scale’s batteries following the Replacing Batteries procedure on page 3-4.

Steady Scale

Step 1. Step on the Scale and stand on it holding the grab bars as shown opposite. You can continue holding the grab bars while taking your weight.

- Stand as much in the center of the platform as possible.
- Try not to step on the corners; you might damage the Scale.

Step 2. The Scale will say, “*Please stand still*”, and the **Stand Still** light will come on.

Do not move.

Changing weight values will show on the display.

The final weight displayed is the correct weight.



Notes

You will not hear the voice prompt if the volume is set to **Silent**.

After several seconds, the Scale will say “*Please step off the Scale*”, (unless the volume is set to **Silent**) and the **Step Off** light will come on.

Step 3. Step off the Scale.

About 5 seconds after you step off the Scale, the Scale will say (unless the volume is set to **Silent**) and display your final weight. The Scale then turns off by itself.

Notes

If the batteries in the Scale are weak, the Scale’s **Stand Still** light will flash instead of remaining on and the voice prompt is quiet even though the volume is not set to **Silent**.

If these messages appear on the display, change the Scale’s batteries following the **Replacing Batteries** procedure on page **3-4**.

Measuring Weight with a Walker

If it is necessary to use a walker to steady yourself on the Scale, use the following procedure for either the Standard Scale or Steady Scale.

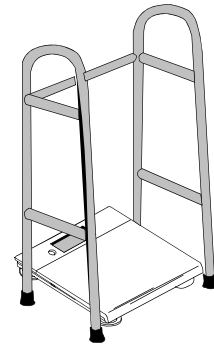
Standard Scale

Step 1. Place the walker so its legs are on either side of the Scale platform as shown opposite.

Step 1. Step on the Scale and stand using the walker arms for balance.

- Stand as much in the center of the platform as possible.
- Try not to step on the corners; you might damage the Scale.

Step 2. Remove your hands from the walker arms.



Note

You must remove your hands from your walker for the Scale to take your true weight.

Step 3. The Scale will say, *“Please stand still”*. **Do not move.** Walking "-" will show on the display during the measurement.

Notes

You will not hear the voice prompt if the volume is set to **Silent**.

After several seconds, the Scale will say *“Please step off the Scale”*.

Step 4. Grasp the walker arms.

Step 5. Step off the Scale.

About 5 seconds after you step off the Scale, the Scale will say your final weight (unless the volume is set to **Silent**).

The Scale then turns off by itself.

Notes

If the batteries in the Scale are weak, the Scale’s display will flash **Lo** and **batt** alternately instead of Walking "-".

If these messages appear on the display, change the Scale’s batteries following the **Replacing Batteries** procedure on page **3-4**.

Steady Scale

Step 1. Place the walker so its legs are on either side of the Scale platform as shown opposite.

Step 1. Step on the Scale and stand using the walker arms for balance.

- Stand as much in the center of the platform as possible.
- Try not to step on the corners; you might damage the Scale.

Step 2. Move your hands from the walker arms to the Scale's **grab bars**. You can continue to use the Scale's grab bars for balance while you are taking your weight.



Note

You must remove your hands from your walker for the Scale to take your true weight.

Step 3. The Scale will say, “*Please stand still*” and the **Stand Still** light will come on.

Do not move.

Changing weight values will show on the display. The final weight displayed is the correct weight.

Notes

You will not hear the voice prompt if the volume is set to **Silent**.

After several seconds, the Scale will say “*Please step off the Scale*”, (unless the volume is set to **Silent**) and the **Step Off** light will come on.

Step 4. Move your hands from Scale's grab bars to the **walker arms**.

Step 5. Step off the Scale.

About 5 seconds after you step off the Scale, the Scale will say (unless the volume is set to **Silent**) and display your final weight.

The Scale then turns off by itself.

Notes

If the batteries in the Scale are weak, the Scale's **Stand Still** light will flash instead of remaining on and the voice prompt is quiet even though the volume is not set to **Silent**.

If these messages appear on the display, change the Scale's batteries following the **Replacing Batteries** procedure on page **3-4**.

Changing the Voice Volume


The Scale's voice has 4 volume settings, as follows:

Setting	Volume
0	Silent
1	Low
2	Medium
3	High

The volume of the Scale's voice can be changed as follows:

Note

The procedure for changing the volume is identical for both scales. The only difference is the label on the **Volume** button.

The **Standard Scale** has a speaker icon  .

The **Steady Scale** has the word **Volume**.

Step 1. Step off the Scale when changing the volume.

Step 2. Firmly press and release the **Volume** button. The volume will move to the next setting. For example, the Scale may say “*one*” and display **1** for **Low**.

Step 3. Firmly press and release the **Volume** button again. The volume moves to the next setting. In this example, the Scale will say “*two*” and display **2** for **Medium**.

Each time you press the **Volume** button, the volume moves to the next setting.

Step 4. Stop the procedure when you reach the desired voice volume.

Note

If you set the volume to **Silent**, there will be no voice prompt and you must watch the Scale's display for instruction lights and your weight measurement.

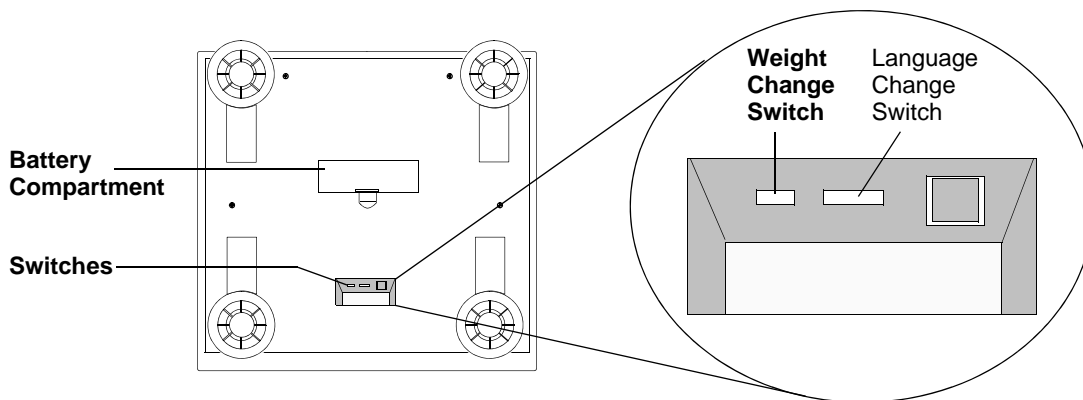
Changing the Weight Units

The Scale can measure your weight in either pounds or kilograms. The procedure for changing the weight units is different for the Standard Scale and the Steady Scale.

Standard Scale

The procedure for changing the Weight Units on the **Standard Scale** is as follows:

Step 1. Turn the Scale over to expose its under side, shown in the following figure.



Step 2. Locate the **Weight Change Switch** in the opening below the Battery Compartment.

Step 3.

Steady Scale

The procedure for changing the Weight Units on the **Steady Scale** is as follows:

Step 1. Step off the Scale when changing the weight units.

Step 2. Firmly press both the **Volume** button and the **Radio Test** button **at the same time**.

Hold both buttons down for at least **3 seconds**.

If the Scale had been measuring pounds, the display will now show **Kgs.** (for kilograms).

If the Scale was measuring kilograms, the scale will now show **Lbs.** (for pounds).

The voice will also say the new weight units (unless the volume is set to Silent).

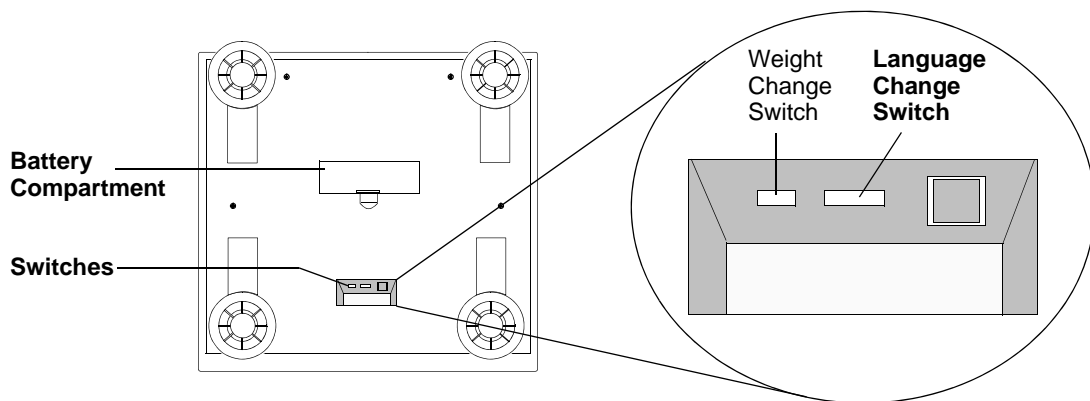
Changing Language

The Standard Scale can speak your weight in either English or Spanish.

Standard Scale

The procedure for changing the language on the **Standard Scale** is as follows:

Step 1. Turn the Scale over to expose its under side, shown in the following figure.



Step 2. Locate the **Language Change Switch** in the opening below the Battery Compartment.

Device Usage

Step 3.

Blood Pressure Unit

To get the most accurate and reliable readings from you Blood Pressure Unit observe the following guidelines.

- Check the cuff size.
The **Standard cuff** fits upper arms 7.5 to 12.5 inches (19 to 31.3 cm) around
The **Large cuff** fits upper arms 11.75 to 17.75 inches (30 to 45 cm) around.
- Take your blood pressure at the same time or times each day in a quiet place.
- Rest 10 minutes before taking your blood pressure.
- Do not take your blood pressure after exertion or drinking coffee or during conversation.
- Sit **within 20 feet** of the Home Hub/TeleStation.
- Sit comfortably with uncrossed legs.
- Use the same arm each time.
- Remove any tight clothing on the arm you will use to measure your blood pressure or roll up a loose garment sleeve.
Do not measure with the cuff over clothing.
- Place the cuff 1 inch above the elbow with the air hose on the inside of your arm.
- Leave room for one finger under the cuff.
- Sit still and do not move your arm during the measurement.

Notes



You can lie down while someone else takes your blood pressure, but it is important to take your blood pressure the same way every time (either sitting or lying down).

Report any changes in how you take your blood pressure to your healthcare provider.

If you travel with the BP Unit, it will store up to 19 readings for up to 11 days with good batteries that remain in the device. When you return home to your Home Hub/TeleStation, the readings will be sent automatically to your healthcare provider's computer.

Display Symbols

The following table explains symbols that you might see on the BP Unit display.

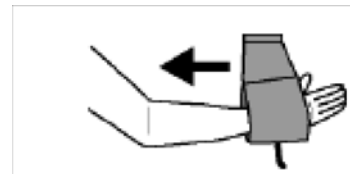
Symbol	Meaning
	<p>The blood pressure measurement is taking place.</p> <p>The symbol blinks and beeps with each pulse beat.</p> <p>The symbol may also appear briefly at the start of your blood pressure measurement.</p>
	<p>The batteries need to be replaced.</p> <p>The symbol may also appear briefly at the start of your measurement.</p>
<p>Err 1 Err 2 Err 3</p>	<p>There may be a problem with your equipment.</p> <p>Wait 15minutes and take your blood pressure again.</p> <p>If there is still a problem, you may be able to fix the problem by looking in the Troubleshooting section.</p> <p>If not, call your healthcare provider.</p>

**Measuring
Blood
Pressure**

The procedure for measuring your Blood Pressure is as follows:

Step 1. Sit comfortably with your forearm resting on a flat surface and your legs uncrossed. The center of your upper arm should be at about the same height as your heart.

Step 2. Put your hand through the cuff and slide the cuff up your forearm.



Step 3. Move the cuff so it is on your upper arm and the bottom of the cuff is about 1 inch above your elbow.

Step 4. Position the air hose so it dangles on the inside of your arm.



Warning

Do not allow the air hose to kink or twist.

Step 5. Pull on the end of the cuff to tighten it.
Then fold the cuff end back over the metal D-ring.

Note

The cuff should be snug but not too tight. Leave room for one finger to fit under the cuff.

Step 6. Fasten the end of the cuff to the Velcro® closure.

Step 7. Make sure that your hand is open, relaxed with the palm up.

Step 8. Press the **START/STOP** button. The cuff will inflate and feel tight.

Sit still and do not move your arm during the measurement.

Note

If it feels too tight or to stop the measurement at any time:

- Press the **START/STOP button**.
- Wait 5 minutes.
- Take your blood pressure again.

If you are concerned at any time about the measurement, contact your healthcare provider.

The BP Unit will display numbers that go up to just beyond 150 mmHg for the initial pump. It may then resume pumping to higher pressures.

Warning

Watch the display. If the numbers go up to 330 mmHg, press the START/STOP button to immediately stop the measurement. Contact your healthcare provider.

Step 9. As the cuff pressure slowly decreases, watch the display window. The BP Unit will beep as the pressure decreases.

Warning

Watch the display. If the numbers drop down to 15 mmHg and stay there for more than 3 minutes, press the START/STOP button to stop the measurement. Contact your healthcare provider.

A long beep indicates that your blood pressure has been taken. The cuff will deflate. The display window shows your final blood pressure and pulse.

Note

If an error message was displayed, you stopped the reading, or you feel that the reading may be incorrect, wait 5 minutes and take your blood pressure again.
If this happens a second time, contact your healthcare provider.

Step 10. Slide the cuff off you arm. The BP Unit will turn off by itself.

Note Once properly adjusted, the cuff can be slid off without undoing the Velcro.

Step 11. Store the BP Unit within 20 feet of the Home Hub/TeleStation so it can send your readings to the Home Hub/TeleStation.

Note Refer to the **Maintenance** section for proper storage of your BP Unit.

**Rhythm
Strip
Recorder**

The following guidelines should be followed before you take your heart rhythm to assure an accurate reading.

- Sit down **within 20 feet** of the Home Hub/TeleStation.
- Relax.

Notes

It is important to be still and relaxed during the rhythm measurement.

You can lie down while you take your heart rhythm.

It is important to take your heart rhythm the same way every time (either sitting or lying down).

Report any changes in how you take your heart rhythm to your healthcare provider.

If you travel with your Recorder, it will store the most recent reading for up to 11 days with good batteries that remain in the device. When you return home to your Home Hub/TeleStation, the most recent reading will be sent automatically to your healthcare provider's computer.

Caution

Do not talk or move during the measurement.

**Measuring
Heart Rhythm**

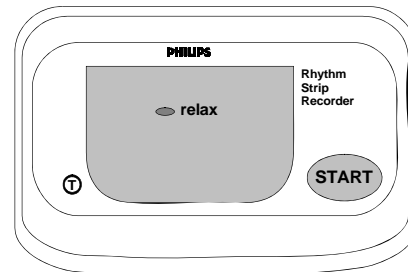
The procedure for measuring your Heart Rhythm is as follows:

- Step 1.** Sit back in a chair with your arms at your sides or on the chair arms. Do not cross your legs. Keep your feet flat on the floor.
- Step 2.** Place the Recorder on the table next to you so you can see it and listen to it without moving. If you have to move to see or hear the Recorder, place the Recorder in your lap.
- Step 3.** Place the wristband with the **white** snap-on connector on your **right** wrist. Make sure that the flat metal inside of the wristband (on the other side of the black plastic pad) firmly touches the inside of your wrist.
- Step 4.** Place the wristband with the **red** snap-on connector on your **left** wrist. Make sure that the flat metal inside the wristband (on the other side of the black plastic pad) firmly touches the inside of your wrist.

Notes If the wristbands are loose, push them up each forearm until they feel snug.
Be careful not to snag the hair on your arms.
Do not put the wristbands over clothing, bandages, or jewelry.
If you cannot fit the wristband on your arm, contact your healthcare provider.

Step 5. Let your hands rest on the tabletop or your chair's arms so that your hands are open relaxed, and palms up.

Step 6. Press the **START** button. The **relax** light will flash on and off, and the Recorder will beep for about 20 seconds as the measurement is being made.



Notes If the Recorder beeps twice quickly before beginning the normal beeping, this means that the batteries are low. Replace the batteries within a week.
The beeps do not reflect your heart rate. They indicate that the Recorder is working.

After another short pause, the **relax** light flashes on and off twice and the Recorder will quickly beep twice. The Recorder has finished taking your heart rhythm.

Step 7. Remove the wristbands. The Recorder will turn off by itself.

Step 8. Store the Recorder within 20 feet of the Home Hub/TeleStation so it can send you measurements to the Home Hub/TeleStation.

Note Refer to the **Maintenance** section for proper storage of your Rhythm Strip Recorder.

Pulse Oximeter

To get the most accurate readings from you Pulse Oximeter, observe the following guidelines:

- The Pulse Oximeter may not work properly with a finger thickness of less than 5/16 inches (0.8 cm) or more than 1 inch (2.5 cm).
- Dark colored nail polish or artificial nails will prevent the Pulse Oximeter from making accurate measurements. Remove dark nail polish and artificial nails from the finger you use to take your measurement.
- Avoid exposing the finger sensor to very bright or changing light while taking your measurement.
- Do not use your Pulse Oximeter on the same arm during or immediately after taking your blood pressure. Use your other arm or take your Pulse Oximeter measurement first.
- Use the same finger each time you make a measurement unless your healthcare provider instructs otherwise.
- Do not use the sensor on a finger that has chronically poor circulation or is injured.
- Be sure the inside of the finger sensor is dry before taking your measurement.
- Be sure your finger is warm when you take your measurement. If your finger is cold, warm or rub it before taking your measurement.
- Carefully place your finger in the sensor as far as it will comfortably go. Do not press in so far that you can feel your finger throbbing.
- Keep you finger relaxed and still while taking your measurement.
- If you have anemia, a low hemoglobin count, or arrhythmias, you may not be able to get a correct reading. Contact your healthcare provider.

Caution

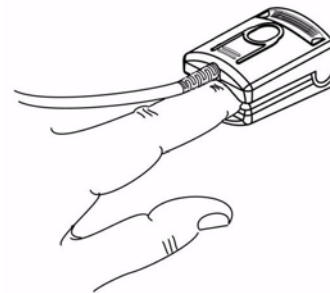
Do not use the Pulse Oximeter with the battery door open.

Measuring Blood Oxygen and Pulse Rate

The following steps describe how to use the Pulse Oximeter to measure your blood oxygen level (%SpO₂) and pulse rate.

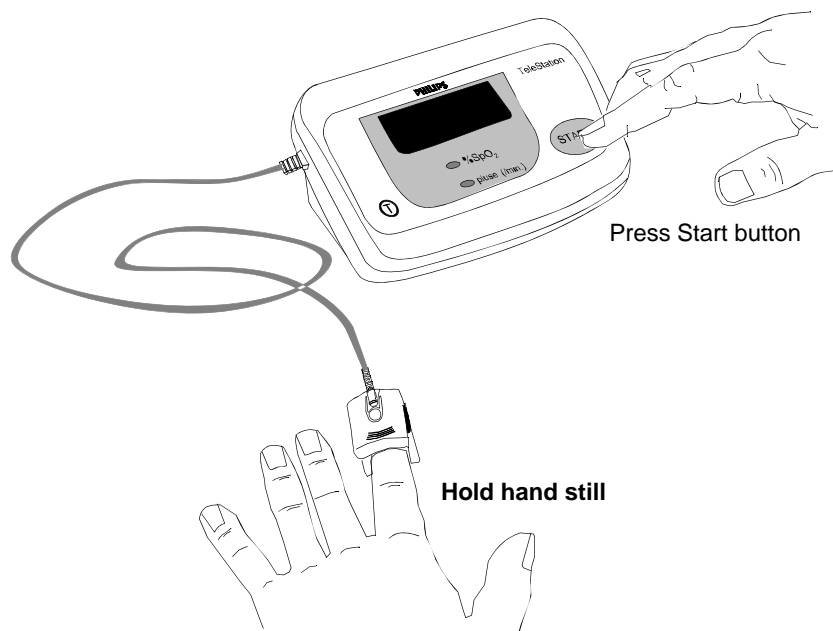
Step 1. Sit **within 20 ft.** of the Home Hub or TeleStation with your hand resting on a flat surface and the Pulse Oximeter in front of you.

Step 2. Open the sensor and fully insert your finger (index, middle, or ring, but not your thumb) until the end of your finger reaches the finger stop. The cable should extend over your finger toward your wrist as shown in the figure.



Step 3. Sit comfortably with your hand resting on the surface so that it can remain still.

Step 4. Press the **START** button and hold your hand still during the measurement.



Device Usage

The measurement process is as follows:

- **Dashes** move across the display during measurement.

- A **double beep** sounds after a few seconds indicating that the measurement is complete

- A **tick** sounds as the **% SpO₂ measurement** displays and the yellow light next to **% SpO₂** illuminates.

- A **tock** sounds as the **pulse rate** displays and the green light next to **pulse (/min.)** illuminates.

- The tick-tock sequence repeats several times and then turns off.



Note

If the measurement was not made, a long beep sounds and *rEdo* displays:

Warm your hand or use a different finger and try again.

3 Maintenance

Overview

Chapter 3 provides steps for cleaning and storing Patient Telemonitoring devices, replacing batteries, and general maintenance of the Patient Telemonitoring Set. You can help keep your devices in working order by taking good care of them.

This chapter includes the following sections:

	Page
Cleaning Devices	3-2
Storing Devices	3-3
Blood Pressure Unit	3-3
Rhythm Strip Recorder	3-3
Pulse Oximeter	3-3
Replacing Batteries	3-4
Scale	3-4
Standard Scale	3-7
Steady Scale	3-7
Blood Pressure Unit	3-9
Rhythm Strip Recorder	3-10
Pulse Oximeter	3-11

Cleaning Devices

Telemonitoring devices should be cleaned only when necessary. The following procedure should be followed to clean the devices.

Note Body fluids, such as blood or mucus, should be promptly removed using a cloth dampened with plain tap water (no soap).

Caution **Avoid spilling liquids on the devices.**
Do not immerse devices in liquids to clean.
Do not use alcohol, harsh chemicals, caustic, or abrasive cleaning agents to clean devices.

Step 1. Unplug the Home Hub/TeleStation from power and phone lines.

Step 2. Remove batteries from the measurement devices following procedures given in the **Replacing Batteries** section.

Step 3. Clean all exposed device surfaces with a **dry, soft cloth**.

Note When cleaning the Pules Oximeter:

- Open the Finger-clip sensor and carefully wipe its inside surfaces with a cloth dampened with a mild detergent.
- Allow the sensor to dry thoroughly before using.

Step 4. Plug the Home Hub/TeleStation back into power and phone lines.

Step 5. Reinstall batteries into the measurement devices following procedures given in the **Replacing Batteries** section.

Storing Devices

All measurement devices should be stored **within 20 feet** of the Home Hub or TeleStation so they can send their results to the Home Hub or TeleStation.

Caution **Do not** store devices inside or next to a metal drawer or container, such as a file cabinet.

Do not store devices where children or pets could get tangled in the hoses, dual cables, or wristband assemblies.

Blood Pressure Unit

- Store the BP Unit so that the hose and cuff assembly are not bent, twisted, or folded tightly.
- Do not wrap the hose around the display case.

Rhythm Strip Recorder

- Store the Rhythm Strip Recorder so that the cable is not twisted or folded tightly.
- The Recorder can be stored with its connectors attached to the wristbands.

Pulse Oximeter

- Store the Pulse Oximeter so that its sensor cable is not twisted or kinked.
- Avoid tugging at the sensor cable or carrying the Pulse Oximeter by the sensor cable.

Replacing Batteries

Batteries in devices should be replaced as soon as the device indicates that they are low or need to be replaced.

Caution **When replacing batteries, replace all of the batteries with new ones at the same time.**

Use only Type AA (1.5 volt) alkaline batteries

Do not use rechargeable batteries.

Warning **Do not use any device with its battery door removed.**

Scale Replace the batteries in the **Standard Scale** every **12 months** or sooner if :

- the voice prompt is absent even though the volume was not set to **Silent**
- the display screen alternately displays **Lo** and **batt** during a measurement
- the Scale announces *"Please replace the scale batteries"* during a measurement.

Replace the batteries in the **Steady Scale** every **6 months** or sooner if:

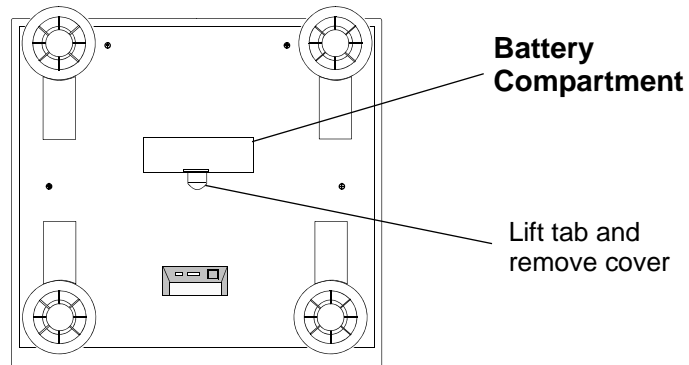
- the voice prompt is absent even though the volume was not set to **Silent**
- the normally steady **Stand Still** light display flashes.

Both Scales use **4 AA alkaline batteries**.

Procedures Procedures for replacing batteries in the Standard Scale and Steady Scale are as follows. Use the procedure for your type of scale.

Standard Scale

Step 1. Lift and gently turn the scale upside down on a flat surface to expose the Battery Compartment.



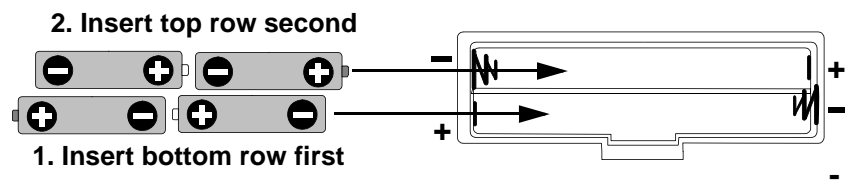
Step 2. Remove the cover of the Battery Compartment by lifting the tab.

Step 3. Remove the old batteries and properly dispose of them.

Note

Check with your local authorities for the proper way to dispose of batteries.

Step 4. Place the new batteries in the Battery Compartment so that the positive (+) and negative (-) terminals match the diagram in the compartment.



Notes

To keep the batteries from popping out, insert the bottom row first.
Make sure that battery terminals are touching compartment terminals.

Replacing Batteries

Step 5. Replace the cover by inserting its tabs into the slots and gently pressing the cover into place.

Step 6. Return the Scale to its original spot following proper lifting techniques given below.

Note

Lifting the Scale requires good balance, the ability to grasp and lift up to 10 pounds, and safe lifting techniques.

Do not lift the Scale if you are unsteady or unable to follow proper lifting techniques. Ask for assistance or contact your healthcare provider for help.

When you lift or lower the Scale:

- Wear shoes with nonslip soles.
- Keep your feet apart and one foot a bit in front of the other, if possible.
- Squat to lift and lower the Scale. **Never bend at the waist.**
- Keep the Scale close to your body.
- Lift with your legs, not your back.
- If you must turn, turn with your feet not your body.

Step 7. Perform the **Radio Test** described in the **Troubleshooting** section.

Step 8. Step on the Scale and verify that it is working properly.

Note

If the Scale does not seem to be operating properly or the **Radio Test** fails, contact your healthcare provider.

Steady Scale

Step 1. Firmly hold the display and pull it from the Scale to release it from the plastic fastener strips that hold it in place.

Step 2. Turn the display over and unplug the cord inside the top of the column.

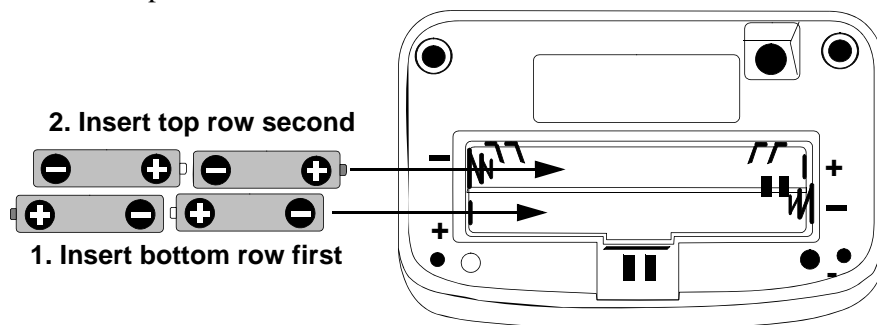
Step 3. Gently push the Battery Compartment cover in the direction of the arrow symbol and lift it off.

Step 4. Remove the old batteries and properly dispose of them.

Note

Check with your local authorities on the proper way to dispose of batteries.

Step 5. Place the new batteries in the Battery Compartment so that the positive (+) and negative (-) terminals match the diagram in the compartment.



Notes

To keep the batteries from popping out, insert the bottom row first. Make sure that the battery terminals are touching the compartment terminals.

Step 6. Replace the cover by inserting its tabs into the slots and gently pressing the cover into place.

The **Stand Still** and **Step Off** lights will turn on for about 6 seconds, then turn off. If the device is face down, you may not see these lights.

Replacing Batteries

The display will then show **8.8.8.8** briefly, and the **Step Off** light will flash slowly.

Step 7. Replace the display as follows:

- Place the connection cord through the display cutout.
- Hold the scale display above the top of the column with the display facing you.
- Plug the cord into the adapter inside the top of the column.
- Center the display over the top of the column so that the plastic fastener strips on the display and the column match.
- Press down on the display. The back of the display should rest against the rim on the top of the column.

When the display is properly connected to the Scale:

- the **Step Off** light stops flashing.
- the Scale will say “*zero pounds*”, display **0.0**, and then turn off.

Note

Important: Do not step on the Scale while doing this step.

If the **Step Off** light does not stop flashing, check the cord connections by unplugging the cord and replugging it in until it snaps into place.

Also check that the batteries are inserted the right way.

Step 8. Return the Scale to its original spot.

Caution

Do not lift the Steady Scale.

If the Steady Scale must be moved, ask for assistance or call your healthcare provider for help.

Step 9. Perform the **Radio Test** described in the **Troubleshooting** section.

Step 10. Step on the Scale and verify that it is working properly.

Note

If the Scale does not seem to be operating properly or the **Radio Test** fails, contact your healthcare provider.

Blood Pressure Unit

- Replace the batteries in the Blood Pressure Unit every 3 months or sooner if required. The expected battery life for the BP Unit is approximately 3 months with 1 daily reading.
- Replace the batteries in the BP Unit when you see the **Low Battery** symbol on the BP Unit display.
- The Blood Pressure Unit uses 4 AA alkaline batteries.

Procedure To replace the batteries in the BP Unit:

Step 1. Turn the display over.

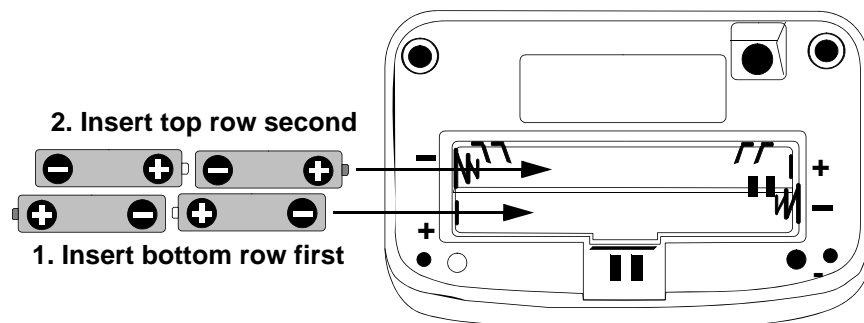
Step 2. Gently push the Battery Compartment cover in the direction of the arrow symbol and lift it off.

Step 3. Remove the old batteries and throw them away.

Note

Check with your local authorities on the best way to recycle or throw away batteries.

Step 4. Place the new batteries in the Battery Compartment so that the positive (+) and negative (-) terminals match the diagram in the compartment.



Notes

To keep the batteries from popping out, insert the bottom row first. Make sure that the battery terminals are touching the compartment terminals.

Replacing Batteries

Step 5. Replace the cover by inserting its tabs into the slots and gently pressing the cover into place.

Step 6. Perform the **Radio Test** described in **Troubleshooting**.

Step 7. Take your Blood Pressure and verify that it is working properly.

Note

If the Blood Pressure Unit does not seem to be operating properly or the **Radio Test** fails, contact your healthcare provider.

Rhythm Strip Recorder

- Replace the batteries in the Rhythm Strip Recorder every 6 months or sooner if required.
- If the Rhythm Strip Recorder beeps twice quickly before beginning normal on and off beeping, the batteries are low and should be replaced within a week.
- The Rhythm Strip Recorder uses 4 AA alkaline batteries.

Procedure

To replace the batteries in the Rhythm Strip Recorder, follow the procedure for the Blood Pressure Unit on page **3-9**, except for Step 7.

The Recorder will make a series of beeps.

If the series ends with a rising tone, the batteries have been inserted correctly.

If the series ends with a falling tone or no tone, the batteries have been inserted the wrong way. Repeat the battery insertion steps.

After Step 6:

Step 7. Measure your heart rhythm with the Rhythm Strip Recorder to verify that it is working properly.

Note

If the Rhythm Strip Recorder does not seem to be operating properly or the **Radio Test** fails, contact your healthcare provider.

Pulse Oximeter

- Replace the batteries in the Pulse Oximeter every 6 months or sooner if required.
- The batteries should be replaced when the Low Battery indicator **bAtt** flashes on the Pulse Oximeter display.
- The Rhythm Strip Recorder uses 4 AA alkaline batteries.

Procedure

To replace the batteries in the Rhythm Strip Recorder, follow **Step 1** through **Step 5** of the procedure for the Blood Pressure Unit on page **3-9**.

After successful battery replacement, the message **Good** should appear.

If the message **bAd** appears, replace the batteries with known good batteries and try again.

After Step 5:

Step 6. Take your Pulse Oximeter measurement and verify that it is working properly.

Note

If the Pulse Oximeter does not seem to be operating properly, contact your healthcare provider.

Replacing Batteries

4 Troubleshooting

Overview

Chapter 4 describes procedure to follow if you have problems with the Patient Telemonitoring system or any of its devices. The tables on the following pages can serve as a guide to help resolve problems that may occur.

Caution

Do not try to repair any device yourself.

If a problem cannot be resolved using the procedures given in this chapter, contact your healthcare provider.



Each device provides an error message when some part of the system is not working properly. If you see an error message on a device, the first thing to do is to check the device and try the measurement again. Be sure to follow the voice and light prompts provided by the device to assure that the measurement is being made properly.

This chapter includes the following sections:

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Radio Test	4-2
Troubleshooting Tables	4-3
Home Hub/Telestation	4-3
Scale	4-8
Standard Scale	4-8
Steady Scale	4-9
Rhythm Strip Recorder	4-10
Blood Pressure Unit	4-11
Pulse Oximeter	4-12

Radio Test

If the remeasurement still does not seem to work properly and the error message continues to appear, another step that can be taken is to perform a Radio Test.

The **Radio Test** makes sure that your measurements are being properly sent from the measurement device to the Home Hub/TeleStation. The **RADIO TEST** button, {  or  }, is on the front of the device.

To perform the Radio Test, follow these steps:

Step 1. 1. Press and hold down the **RADIO TEST** button on the measurement device for **3 to 5 seconds** or until the Home Hub/TeleStation starts beeping.

Note

If the **using phone** light on the Home Hub/TeleStation lights, stop and wait until it turns off before performing the Radio Test.

If the Radio Test is successful, the following messages will appear on the indicated device.

The **Scale** display will show **rF**.

The **Rhythm Strip Recorder's RELAX** light will flash once per second.

The **Home Hub/TeleStation** will also beep:

If the Home Hub/TeleStation does not beep, do the following:

- see if there are any large objects between the measurement device and the Home Hub/TeleStation.
 - If there are large objects, move the measurement device to a different location.
 - If there are no large objects, move the measurement device closer to the Home Hub/TeleStation.
- Make sure there are no cordless or cellular telephones or computers in use near the Home Hub/TeleStation.
- Repeat the Radio Test

If the Radio Test is still not successful, refer to the following Troubleshooting tables to try to further resolve the problem

Troubleshooting Tables

The following tables gives possible **Problems** that can occur, **Reasons** why they may have occurred, and **Possible Solutions** that should be tried to resolve the problem.

Find the **Problem** entry that seems to describe what you observe, and then try the various **Possible Solutions**. If none of the solutions seem to be successful, contact your healthcare provider for additional suggestions.

Caution **Do not try to repair any device yourself.**
If a problem cannot be resolved using the procedures given in this section, contact your healthcare provider.

Home Hub/Telestation The following table describes problems that may occur with the Home Hub or TeleStation.

Problem	Reason	Possible Solutions
The screen is unreadable	The Home Hub/TeleStation may be hot from sitting in sunlight or storage at a high temperature	Let the Home Hub/TeleStation cool to room temperature and the screen display may be restored.
When taking a measurement, the data/holding results light does not turn on	There may be interference from electronic devices, such as cordless or cell phones or computers.	Move any electronic devices away from the Home Hub/TeleStation
	The measurement device may be too far from the Home Hub/TeleStation	Move the measurement device closer to the Home Hub/TeleStation. Perform the Radio Test to determine if the device signals are being received by the Home Hub/TeleStation

Troubleshooting Tables

Problem	Reason	Possible Solutions
<p>When you take a measurement, the data/holding results light remains on</p>	<p>There may be a problem with your telephone service or your healthcare provider's connection</p>	<p>Perform the CALL button test as follows:</p> <ul style="list-style-type: none"> - Find the CALL button on the far right of the back panel of the Home Hub/TeleStation - Press the CALL button for less than 2 seconds. The Home Hub/TeleStation should beep once. (For some Home Hubs, you may need to use a pen or other pointed object to depress the CALL button) - Release the CALL button. - In 10 seconds, the using phone light should turn on and the Home Hub/TeleStation will dial your healthcare provider. - After a few minutes, the using phone light and the data/holding results light should turn off. - If the data/holding results light turns off, the Home Hub/TeleStation is operating correctly. (It may take a few minutes for it to turn off.) - If the results above do not occur, contact your healthcare provider.

Problem	Reason	Possible Solutions
<p>When you take a measurement, the data/holding results light remains on and you have a special phone service such as voice mail or the data/holding results light stays on</p>	<p>There may be a conflict between your special phone service and the Home Hub/TeleStation connection, or a problem with your telephone line or you healthcare provider's connection.</p>	<ul style="list-style-type: none"> - Have someone call and leave a message on you special telephone service Perform the CALL button test as follows: <ul style="list-style-type: none"> Note: Keep your phone on the hook for the following steps unless told otherwise. - Find the CALL button on the far right of the back panel of the Home Hub/TeleStation - Press the CALL button for less than 2 seconds. The Home Hub/TeleStation should beep. (For some Home Hubs, you may need to use a pen or other pointed object to depress the CALL button) - Release the CALL button. - In 10 seconds, the using phone light should turn on and the Home Hub/TeleStation will dial your healthcare provider. - After a few minutes, the using phone light and the data/holding results light should turn off. - If the data/holding results light is still on, listen to the saved message and then delete it. - Press the CALL button for less than 2 seconds. The Home Hub/TeleStation should beep once. - Release the CALL button. - In 10 seconds, the using phone light should turn on and the Home Hub/TeleStation will dial your healthcare provider.

Troubleshooting Tables

Problem	Reason	Possible Solutions
Continued from previous page		<ul style="list-style-type: none"> - After a few minutes, the using phone light and the data/holding results light should turn off. - If the data/holding results light turns off, the Home Hub/TeleStation is operating correctly. (It may take a few minutes for it to turn off.) However, your special phone service may be interfering with the Home Hub/TeleStation - If the data/holding results light stays on, there is probably not a conflict with your special phone service. However, there may be a problem with your phone line or your healthcare provider's connection. - If the results above suggest a problem, contact your healthcare provider.

Problem	Reason	Possible Solutions
<p>Liquid spilled onto the Home Hub/TeleStation (for example, where the wires connect to the back)</p>	<p>The Home Hub/TeleStation should be placed far from liquids (especially a sink or anywhere liquids might spill onto the unit.)</p>	<p>For liquid spills, do the following:</p> <ul style="list-style-type: none"> - Unplug the Home Hub/TeleStation power adapter from the wall or power strip. - Unplug the phone connection cord from the wall jack. - Use a towel to dry off the Home Hub/TeleStation, paying special attention to connection points. - Wait 3 hours for the unit to completely dry. - Plug the connection cords back into the Home Hub/TeleStation and the electrical and phone lines. Make sure they snap into place. - Pick up your telephone receiver and listen for a dial tone. - If you do not hear a dial tone, hang up and try again. - If you still do not hear a dial tone, unplug the Home Hub/TeleSTation. - Connect your telephone directly to the phone jack. - Contact your healthcare provider.

Troubleshooting Tables

Scale The following table describes problems that may occur with the each of the two types of Scale -- Standard Scale and Steady Scale. Use the table for your type of Scale.

Standard Scale The following troubleshooting table applies to the **Standard Scale**.

Problem	Reason	Possible Solutions
Err.1 appears on the display and it says <i>"Please try again."</i>	You may have stepped off the Scale too soon.	Take your weight again and wait for the voice prompt before stepping off the Scale.
Err.2 appears on the display and it says <i>"Please try again."</i>	You may have moved during the measurement	Take your weight again and do not move while the scale measures your weight
Err.3 appears on the display and it says <i>"Please try again."</i>	You may have stayed on the scale too long.	Take your weight again and step off the scale as soon as you hear the voice prompt.
Err.4 appears on the display and it says <i>"The maximum weight was exceeded."</i>	Your may have exceeded the maximum weight of 400 lbs (200 kgs)	Use a regular scale to see if your weight exceeded 440 lbs (200 Kg).
No voice prompt when you stand on the Scale and it is not set to Silent	The Scale's batteries are low.	Replace all 4 batters in the Scale as described in Chapter 3
The display alternately flashes Lo and batt		
The Scale announces <i>"Please replace the scale batteries"</i>		
Scale does not turn on.	The Scale is not properly installed or the batteries are low.	<ul style="list-style-type: none"> - Replace all 4 Scale batteries following the procedure in Chapter 3. - Move the Scale to a hard, flat surface. - If it still des not turn on, contact your healthcare provider.
The final weight reading keeps changing or is incorrect.	The Scale is on a carpeted or irregular surface, or the Scale is broken.	<ul style="list-style-type: none"> - Move the Scale to a hard, flat surface and take your weight again. - If this does not resolve the problem, contact your healthcare provider.

Steady Scale The following troubleshooting table applies to the **Steady Scale**.

Problem	Reason	Possible Solutions
Err. appears on the display	You stepped off the Scale too soon.	Take your weight again and wait for the Step Off light and voice prompts before stepping off the Scale.
Err.1 or Err.2 or Err.6 appears on the display	The Scale display is not connected to the Scale or there is a problem with the Scale	Check the connection of the display to the Scale. If this does not resolve the problem, contact your healthcare provider.
Err.3 appears on the display	You moved the scale immediately after stepping off.	Take your weight again and wait for the Step Off light and voice prompt before stepping off the Scale and do not touch the Scale.
Err.4 appears on the display	You moved during the weight measurement.	Take your weight again and remain still during the measurement.
Err.5 appears on the display	The Scale was unable to read the measurement.	Use a regular scale to see if your weight exceeded 365 lbs (166 Kg)
Err.6 appears on the display	You did not step off the Scale when prompted.	Take your weight again and when the Step Off light and voice prompt occur, step off the Scale.
Stand Still light blinks when you stand on the Scale.	The Scale's batteries are low.	Replace all 4 batters in the Scale as described in Chapter.3
Stand Still light blinks and there is no voice prompt when you stand on the Scale and it is not set to Silent.	The Scale's batteries are low.	Replace all 4 batters in the Scale as described in Chapter.3
Step Off light flashes slowly	The Scale display is not connected to the Scale.	- Check the cord connection between the platform and the display - Unplug and replug the cord until it snaps into place

Troubleshooting Tables

Problem	Reason	Possible Solutions
Scale does not turn on.	The Scale is not properly installed or the batteries are low.	<ul style="list-style-type: none"> - Check the cord connection between the platform and the display. - Replace all 4 Scale batteries following the procedure in Chapter 3. - Move the Scale to a hard, flat surface. - If it still does not turn on, contact your healthcare provider.
The final weight reading keeps changing or is incorrect.	The Scale is on a carpeted or irregular surface, or the Scale is broken.	<ul style="list-style-type: none"> - Move the Scale to a hard, flat surface and take your weight again. - If this does not resolve the problem, contact your healthcare provider.





Rhythm Strip Recorder

The following table describes problems that may occur with the **Rhythm Strip Recorder**.

Problem	Reason	Possible Solutions
Poor heart rhythm measurement, or the Home Hub/ TeleStation is not receiving the heart rhythm measurement.	The wrist bands are too loose or not properly positioned.	Push the wristbands up your arms until there is a smooth, snug fit against the skin or your inner wrists or arms.
	The measurement device may be too far from the Home Hub/TeleStation	<ul style="list-style-type: none"> - Move the measurement device closer to the Home Hub/TeleStation. - Perform the Radio Test to determine if the device signals are being received by the Home Hub/TeleStation. - If the Recorder is still not operating properly, contact your healthcare provider.

Blood Pressure Unit

The following table describes problems that may occur with the **Blood Pressure Unit**.

Problem	Reason	Possible Solutions
Inaccurate blood pressure readings.	Improper blood measurement procedure.	Review the blood pressure tips in Chapter 2 and repeat the measurement.
 appears on the display	The systolic and diastolic measurements are within 10 mm Hg of each other. There may be air leakage in the air hose connections.	- Check that the air hose is properly connected to the BP Unit and cuff by unplugging it and then plug it back in, pushing and twisting until it snaps into place.
 appears on the display	You moved during the reading.	- Wait 15 minutes. - Take your blood pressure again, remaining very still during the reading.
 appears on the display	The pressure measurement did not increase during cuff inflation or the cuff is not securely fastened.	- Check that the air hose is properly connected to the BP Unit and cuff by unplugging it and then plug it back in, pushing and twisting until it snaps into place. - Make sure the cuff is securely fastened
 appears on the display	The BP Unit batteries are low.	- Replace all 4 batteries in the BP Unit following the procedure in Chapter 3. Note: If the batteries need frequent replacement, check the initial snugness of the cuff. A loose cuff requires longer pumping times and will shorten battery life.

Troubleshooting Tables

Pulse Oximeter

The following table describes problems that may occur with the **Pulse Oximeter**.

Problem	Reason	Possible Solutions
Err. appears on the display	A hardware malfunction is detected.	If condition persists, contact your healthcare provider.
rEdo appears on the display	A reading was not obtained.	<ul style="list-style-type: none"> - Reduce the light. - Warm your finger. - Keep your hand still. - Repeat the measurement. - If the condition persists, contact your healthcare provider.
bAtt appears on the display and flashes.	Batteries are too low for the Pulse Oximeter to work properly.	<ul style="list-style-type: none"> - Replace all 4 batteries following the procedure in Chapter 3. - Perform a Radio Test.
Good appears on the display along with a rising audio tone after battery replacement	Indicates that the batteries are good.	No action required. Proceed with Pulse Oximeter measurement.
bAd appears on the display along with a low audio tone after battery replacement.	There is a hardware malfunction.	<ul style="list-style-type: none"> - Replace all 4 batteries following the procedure in Chapter 3. - Perform a Radio Test. - If condition persists, contact your healthcare provider.

Specifications and Regulatory

Overview

Chapter 5 provides information about the Philips Telemonitoring Set of devices that is required by law to completely describe their characteristics, performance and compliance with regulatory requirements. It includes the following sections.

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Specifications


This section gives technical descriptions and specifications of the Philips Telemonitoring Set devices, including physical, electrical, and environmental.

Description


Home Hub/TeleStation

Model	Home Hub: M3812A TeleStation: M3812B
Type	Class II equipment, continuous operation
Display	LED lights on both models

Standard Scale


Model	M3813B
Type	- Type B applied part  - IPXO ordinary equipment - Internally powered continuous operation
Display	- Digital, 2.0 in (51 mm) character height - Weights displayed and announced simultaneously
Language	English or Spanish
Audio Volume	Voice readout of weight, prompts, and 4 settings
Measurement Range	66 to 440lbs (30 to 200 kg)
Accuracy	$\pm 0.5\%$ of loading at maximum patient weight ± 2.2 lbs (1.0 kg)
Display Units	pounds (lbs) or kilograms (kg), user selectable
Maximum Allowed Weight	440 lbs (200 kg)
Grab Bar and Post	check for availability

Steady Scale


Model	M3813A
Type	- Type B applied part  - IPXO ordinary equipment - Internally powered continuous operation
Display	- Digital, 0.71 in (18 mm) character height - Weights displayed and announced simultaneously
Language	English only
Audio Volume	Voice readout of weight, prompts, and 4 settings
Measurement Range	66 to 365lbs (30 to 166 kg)
Accuracy	$\pm 1\%$ of loading ± 1.1 lbs (0.5 kg) at maximum patient weight ± 4.8 lbs (2.2 kg)
Display Units	pounds (lbs) or kilograms (kg), user selectable
Maximum Allowed Weight	365 lbs (166 kg)
Grab Bar and Post	Removable attachment

Specifications


Blood Pressure Unit

Model	M3815A
Type	- Type B applied part  oscillometric - IPXO ordinary equipment - Internally powered continuous operation
Display	- Digital, 0.63 in (16 mm) character height - Pressure/pulse displayed simultaneously
Measurement Range	- Pressure: 20 to 280 mm Hg - Pulse: 40 to 200 pulses per minute
Accuracy	Pressure transducer: $\pm 2\%$ or ± 3 mm Hg
Pressurization	Automatic, using micropump
Depressurization	Constant-air release-valve system
Deflation	Automatic exhaust

Rhythm Strip Recorder

Model	M3816A
Type	- 1-channel lead - Oscillometric, Type B applied part  - IPXO ordinary equipment - Internally powered continuous operation
Display	LED light

Pulse Oximeter

Model	M3814A
Type	<ul style="list-style-type: none"> - Type B applied part  - IPXO ordinary equipment - internally powered continuous operation (does not imply continuous monitoring)
Display	<ul style="list-style-type: none"> - Digital 0.7 in. (1.8 cm) character height - SpO₂ - Pulse displayed alternately - SpO₂ display range: 0 - 100%
Measurement Range	<ul style="list-style-type: none"> - SpO₂: 70 - 100% (functional hemoglobin) - Pulse: 18 to 300 beats per minute
Measurement Accuracy	<ul style="list-style-type: none"> - S pO₂: 70 - 100%, ± 2 digits (± 1 Standard Deviation a statistical measure) - (SpO₂ calibration range: 70 - 100% determined by arterial blood measurement on a Co-oximeter Test methods available upon request.) - Pulse: $\pm 3\%$, ± 1 digit
Measurement Wavelengths	<ul style="list-style-type: none"> - 660 nanometers, 3 milliwatts (nominal) - 910 nanometers, 3 milliwatts (nominal)
Biocompatibility	Suitable for surface device, skin contact, limited contact duration (up to 24 hours)

Specifications

Technical Specifications **Physical**

Philips Device	Product Part #	Height cm (in.)	Width cm (in.)	Depth cm (in.)	Weight kg. (lbs.)
Home Hub	M3812A	3.8 (1.5)	20.0 (7.88)	28.0 (11)	0.9 (2.05) ^a
TeleStation	M3812B	12.7 (5.0)	21.8 (8.6)	15.9 (6.25)	0.8 (1.7) ^a
Standard Scale	M3813B	0.89 (2.25)	38.1 (15)	38.1 (15)	3.8 (8.4) ^b
Steady Scale	M3813A	104 (45.7)	50.5 (20)	50.8 (20)	6.8 (15)
Blood Pressure Unit	M3815A	104 (45.7)	50.5 (20)	50.8 (20)	6.8 (15)
Rhythm Strip Recorder	M3816A	6.9 (2.7)	11.2 (4.4)	16.5 (6.5)	34 (0.75) ^b
Pulse Oximeter	M3814A	16.5 (6.5)	11.2 (4.4)	16.5 (6.5)	3.7 (0.81) ^b

a. Net weight, without power module

b. Net weight, with batteries

Electrical

Philips Device	Product Part #	Power Source	Battery Life
Home Hub	M3812A	9.0VAC/ 500mA (Use Philips-supplied power adapter only)	n/a
TeleStation	M3812B		
Standard Scale	M3813B	4 AA (1.5V) alkaline batteries connected in series for a total of 6 V	~ 12 months with 1 daily measurement
Steady Scale	M3813A		~ 6 months with 1 daily measurement
Blood Pressure Unit	M3815A		~ 3 months with 1 daily measurement
Rhythm Strip Recorder	M3816A		~ 1 year with 1 daily measurement
Pulse Oximeter	M3814A		~ 6 months with 1 daily measurement

Environmental

Philips Device	Product Part #	Temperature		Atmospheric Pressure Operating and Storage (hPa)	Altitude Operating and Storage (hPa)	Relative Humidity (Non-condensing)
		Operating	Storage			
Home Hub	M3812A	10 - 40°C (50 - 104°F)	-9 - 54°C (15 - 130°F)	572-1013	0-4600m (0-15,000ft)	less than 85%
TeleStation	M3812B					
Standard Scale	M3813B					
Steady Scale	M3813A					
Blood Pressure Unit	M3815A					
Rhythm Strip Recorder	M3816A					
Pulse Oximeter	M3814A					

Warning

These devices are not suitable for use in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide.

Electromagnetic Compatibility

When using the Philips Telemonitoring System, electromagnetic compatibility with surrounding devices should be assessed.

A medical device can either generate or receive electromagnetic interference. Testing for electromagnetic compatibility (EMC) has been performed according to international medical device standards EN 60601-1-2.

These EMC standards describe tests for both emitted and received interference. Emission tests deal with interference generated by the device itself, whereas Immunity tests deal with determining electromagnetic compatibility of the device while used in the presence of surrounding electronic equipment or other external sources that may generate interference.

Warning

Radio frequency (RF) interference from nearby transmitting devices may degrade performance of Philips Telemonitoring Set devices. Electromagnetic compatibility with surrounding devices should be assessed prior to using this equipment.

Philips Telemonitoring Set devices should not be used next to or stacked with other equipment. If you must stack the device, check that normal operation is possible.

Emissions and Immunity

The EMC standards state that manufacturers of patient-coupled equipment must specify immunity levels for their devices when there is reduced performance.

During the EN 61000-4-3 Radiated Immunity test, some reduced performance was observed.

EN 61000-4-3 specifies that devices be subjected to a field of 3 Volts/meter over a frequency range of 26 to 1000 MHz with no degradation of performance or loss of function below the performance level specified when equipment is operated as intended. Radio communication from the

Philips Telemonitoring Set devices may occasionally be interrupted when subjected to frequencies in the 800 MHz - 942 MHz range at field strength levels as low as 0.05 V/m. The phenomena discussed above are not unique to this unit but are characteristic of radio instrumentation in use today. The M3812A Home Hub and M3812B TeleStation are radio receivers and their reception of Philips Telemonitoring Set device signals can be degraded by electromagnetic interference.

Avoiding Electromagnetic Interference Problems

Eliminating the source of interference or moving it away can avoid electromagnetic interference. Possible sources of interfering radio frequency radiation are cellular telephones, cordless telephones, and other products that contain radio transmitters.

Philips Telemonitoring Set devices have a Radio Test button that sends a reduced strength test radio signal to the Home Hub or TeleStation, which sounds an audio tone if the test signal is successfully received. This test can be used to determine whether sources of interference are present. These sources can be turned off or moved away to reduce their strength and reduce interference. In addition, Philips Telemonitoring Set devices and Home Hub or TeleStation can be placed closer to each other so that the radio transmission from the Philips Telemonitoring Set devices to the Home Hub or TeleStation has less distance to travel and interfering radio signals have less effect. The radio transmission from the Philips Telemonitoring Set devices is repeated periodically so that an intermittent source of interference should only delay reception.

Avoiding Static Electrical Discharges

Static discharges to Philips Telemonitoring Set devices may cause temporary, unusual behavior. If a static discharge causes a temporary malfunction, simply restart the measurement.

Regulatory Information

FCC Regulations

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits provide reasonable protection against harmful interference in a residential installation. Philips Telemonitoring Set devices generate, use, and can radiate radio frequency energy. If not installed and used according to instructions, it may interfere with radio communications. However, there is no guarantee that interference will not occur if the equipment is properly installed.

If this equipment causes interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct it by:

- relocating the Home Hub or TeleStation,
- increasing the separation between the Philips Telemonitoring Set devices or the Home Hub or TeleStation and the device being interfered with, for example, a TV,
- consulting your healthcare provider.

Notes

Any changes or modifications to the equipment not expressly approved by Philips could void the user's authority to operate it.

The possibility of hazards arising from errors in the software program is minimized by Philips' use of a risk analysis and risk management process as defined in Philips' document CM RISK ANALYSIS PROCESS, document number A-Q2920-00126.

Telephone Regulatory Notice

Your Philips Home Hub is registered with the Federal Communications Commission (FCC) and is in compliance with part 68 of the FCC Rules and Regulations. The FCC requires Philips to provide you with the following information. The Home Hub contains a 14.4 Kbps modem. You must, upon request, provide the following information to your local telephone company (this information is also printed on the bottom of the device): FCC Part 68 ID Number: 2M6USA-33569-DT-E and Ringer Equivalence Number (REN): 0.3A.

Your Philips TeleStation complies with Part 68 of the FCC rules and the requirements adopted by the Administrative Council for Terminal Attachments (ACTA). ACTA requires Philips to provide you with the following information. The TeleStation contains a 14.4 Kbps modem. You must, upon request, provide this information to your local telephone company.

On the bottom of the device is a label that contains, among other information, a product identifier in the format

US: AAAEQ##TXXXXX.

For products approved after July 23, 2001, the digits in the product identifier represented by ## are the REN without a decimal point (for example, 03 is a REN of 0.3). If requested, this number must be provided to the telephone company.

The REN is useful to determine the number of devices you can connect to your telephone line and still have all of these devices ring when your telephone number is called. In most (but not all) areas, the sum of the RENs of all devices connected to one line should not exceed 5. To be certain of the number of devices connected to your line as determined by the REN, contact your local telephone company.

Note: (a) The Home Hub or TeleStation may not be used on coin service phones provided by the telephone company. (b) Party lines are subject to state tariffs and, therefore, you may not be able to use your own telephone equipment if you are on a party line. Check with your local telephone company. (c) Notice must be given to the telephone company upon permanent disconnection of your telephone from your line.

Regulatory Information

Rights of the Telephone Company: Should your Home Hub or TeleStation cause trouble on your line that may harm the telephone network, the telephone company shall, if possible, notify you that temporary discontinuation of service may be required. If advance notice is not practical, the telephone company may discontinue service immediately, but temporarily. In such case of discontinuance, the telephone company must (1) promptly notify you of such temporary discontinuance, (2) afford you the opportunity to correct the situation, and (3) inform you of your right to bring a complaint to the FCC pursuant to the procedures in Subpart E of Part 68, FCC Rules and Regulations.

The telephone company may make changes in its communications facilities, equipment, operations, or procedures where such action is required in the operation of its business and not consistent with FCC Rules and Regulations. If these changes are expected to affect the use or performance of your Home Hub or TeleStation, the telephone company must give you adequate notice, in writing, to allow you to maintain uninterrupted service.

A plug and jack used to connect the TeleStation must comply with applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord with a modular plug is provided with the TeleStation. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

Consult your telephone company or qualified installer if you are using a TeleStation and have specially wired alarm equipment connected to your telephone line.

Contact Philips Medical Systems at (978) 687-1501 for repair or warranty information.